DOCUMENT RESUME

ED 073 285 VT 018 906

AUTHOR	Miller, David H., Comp.; Moore, Allen B., Comp.
TITLE	Manufacturing: Occupational Cluster Series-14.
INSTITUTION	Ohio State Univ., Columbus. Center for Vocational and Technical Education.
SPONS AGENCY	National Inst. of Education (DHEW), Washington, D.C.
PUB DATE	73
NOTE	103p.
EDRS PRICE	MF-$0.65 HC-$6.58
DESCRIPTORS	*Abstracts; *Career Education; Curriculum Development; Documentation; *Educational Research; Information Systems; Information Utilization; *Instructional Materials; *Manufacturing; Occupational Clusters
IDENTIFIERS	*Educational Resources Information Center; ERIC

ABSTRACT

This compilation of ERIC abstracts dealing with manufacturing is the 14th in a series that identifies research and instructional materials in selected occupational clusters. Ninety-four documents were identified by means of computer searches of "Research in Education" from 1967 to December 1972. Instructions on how to use ERIC reference products are included. Intended for use in career education curriculum development, these abstracts include lists of descriptors, identifiers, and other pertinent information about documents in the occupational cluster dealing with manufacturing. This document is related to 14 other cluster groupings, available as VT 018 790-VT 018 793, VT 018 897-VT 018 905, and VT 018 907 in this issue. (AG)

ED 073285

U S DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
OFFICE OF EDUCATION
THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY

Cluster Series 14

MANUFACTURING

Occupational Cluster Series

Abstracts of Instructional and
Research Materials

Compiled by

David H. Miller
Allen B. Moore

1973

The Center for Vocational and Technical Education
The Ohio State University
1960 Kenny Road
Columbus, Ohio 43210

FILMED FROM BEST AVAILABLE COPY

MISSION OF THE CENTER

The Center for Vocational and Technical Education is an independent unit on The Ohio State University campus. It serves a catalytic role in establishing consortia to focus on relevant problems in vocational and technical education. The Center is comprehensive in its commitment and responsibility, multidisciplinary in its approach and interinstitutional in its program.

The Center's mission is to strengthen the capacity of state educational systems to provide effective occupational education programs consistent with the individual needs and manpower requirements by:

- Conducting research and development to fill voids in existing knowledge and to develop methods for applying knowledge.
- Programmatic focus on state leadership development, vocational teacher education, curriculum, vocational choice and adjustment.
- Stimulating and strengthening the capacity of other agencies and institutions to create durable solutions to significant problems.
- Providing a national information storage, retrieval and dissemination system for vocational and technical education through the affiliated ERIC Clearinghouse.

This publication was prepared pursuant to a contract with the National Institute of Education, U.S. Department of Health, Education and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged to express freely their judgment in professional and technical matters. Points of view or opinions do not, therefore, necessarily represent official National Institute of Education position or policy.

PREFACE

Finding and using relevant information frequently is a major task for curriculum specialists, teachers, administrators and students. The Center for Vocational and Technical Education is dedicated to making useful and vital information accessible so that it may be used to improve school practices.

The Center has assembled, under one cover, research materials and instructional materials related to the Manufacturing occupational cluster. The materials included in this compilation, in the form of abstracts, are selections from Research in Education (RIE) from 1967 to February, 1973.

Other compilations of abstracts in the occupational cluster series, of which this is a part, include the areas of arts and humanities, natural resources, construction, government, transportation, communication, trade, finance, education, health, welfare, recreation and entertainment, product services, and personal services.

We are indebted to Allen B. Moore, project director, Supportive Information for the Comprehensive Career Education Model, and David H. Miller, Information Specialist who coordinated the compilation of this publication.

We hope that this publication will prove valuable to you in your particular endeavor.

Robert E. Taylor
Director
The Center for Vocational
and Technical Education

Manufacturing Cluster

INTRODUCTION

This compilation of ERIC abstracts is the fourteenth in a series of publications which identify research and instructional materials dealing with selected occupational clusters. The 15 cluster areas included in the series have been identified by educational specialists as a means of suggesting a structure for career education curriculum development.

Other compilations of ERIC abstracts are available for the following cluster areas:

- Natural Resources--available as VT 018 791
- Arts and Humanities--available as VT 018 790
- Construction (Construction Process) available as VT 018 792
- Government (Administrative Body) available as VT 018 793
- Transportation--available as VT 018 907
- Communication--available as VT 018 897
- Trade (Marketing) available as VT 018 898
- Finance (Banking) available as VT 018 899
- Education--available as VT 018 900
- Health--available as VT 018 901
- Welfare--available as VT 018 902
- Personal (Human) Services--available as VT 018 903
- Product Services--available as VT 018 904
- Recreation and Entertainment--available as VT 018 905

Manufacturing Cluster

INDEX/RETRIEVAL TERMS

This compilation of abstracts represents selected documents identified from a search strategy which included the following ERIC terms:

Machinists
Machine Tool Operators
Manufacturing
Mechanical Design Technicians
Mass Production

Each ERIC document indexed by certain combinations of these terms resulted in a computer "hit". Each time a "hit" was registered, an abstract along with its complete bibliographic citation was printed. Each abstract included in the initial computer printout was screened for relevance by information specialists at The Center prior to the development of this compilation. For a detailed explanation of computer searching see VT 018 425, ERIC Instructional Package for Vocational Educators.

How to Use ERIC Reference Products

Each ERIC reference publication includes:

1. Document Resume Section containing abstracts and bibliographic information

2. Subject and Author Index Section

Each resume presents information about a document's content, its source and availability. Sample resumes on the following pages are explained in detail.

The indexes help to locate the abstracts by page numbers and accession numbers. These indexes are: Subject Index, Author Index and Conversion of Document Number Index. Index terms used in the subject index are ERIC descriptors. Each document has been assigned several of these descriptors; therefore, each document title appears in the subject index several times.

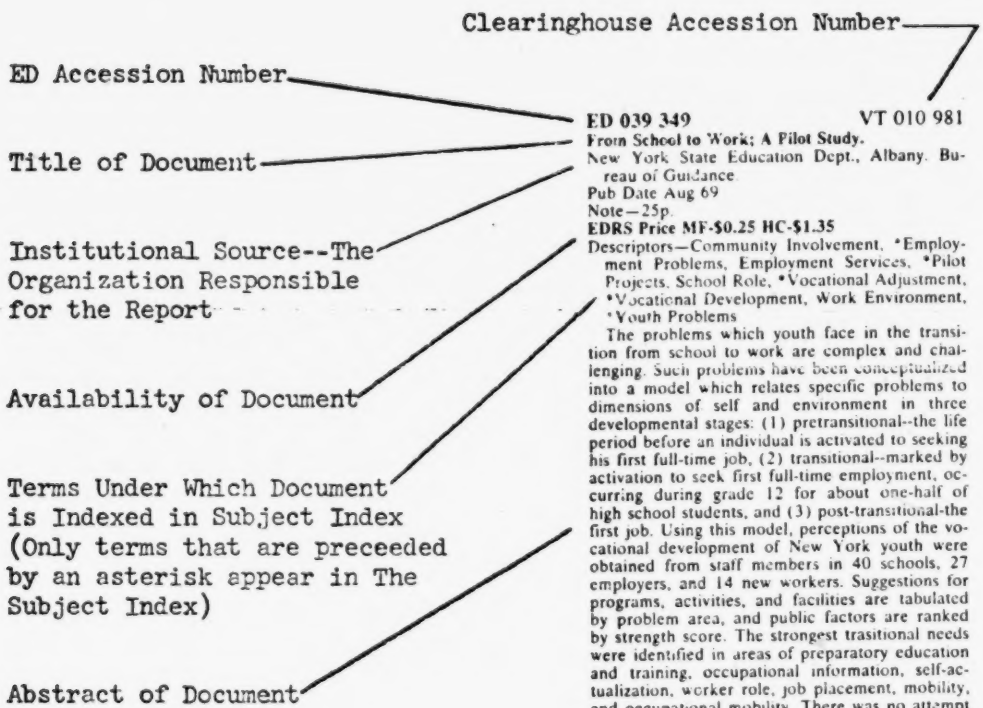
The full texts of documents are available from the original sources or from the ERIC Document Reproduction Service (EDRS) as microfiche or xerox reproductions.

Format of

Research in Education (RIE)

Document Resume

ED 039 349


Clearinghouse Accession Number
ED Accession Number
Title of Document
Institutional Source--The Organization Responsible for the Report
Availability of Document
Terms Under Which Document is Indexed in Subject Index (Only terms that are preceeded by an asterisk appear in The Subject Index)
Abstract of Document
ED 039 349 VT 010 981
From School to Work; A Pilot Study.
New York State Education Dept., Albany. Bureau of Guidance
Pub Date Aug 69
Note—25p.
EDRS Price MF-$0.25 HC-$1.35
Descriptors—Community Involvement, *Employment Problems, Employment Services, *Pilot Projects, School Role, *Vocational Adjustment, *Vocational Development, Work Environment, *Youth Problems
The problems which youth face in the transition from school to work are complex and challenging. Such problems have been conceptualized into a model which relates specific problems to dimensions of self and environment in three developmental stages: (1) pretransitional--the life period before an individual is activated to seeking his first full-time job, (2) transitional--marked by activation to seek first full-time employment, occurring during grade 12 for about one-half of high school students, and (3) post-transitional-the first job. Using this model, perceptions of the vocational development of New York youth were obtained from staff members in 40 schools, 27 employers, and 14 new workers. Suggestions for programs, activities, and facilities are tabulated by problem area, and public factors are ranked by strength score. The strongest trasitional needs were identified in areas of preparatory education and training, occupational information, self-actualization, worker role, job placement, mobility, and occupational mobility. There was no attempt to investigate causative factors; however, some causal inferences are drawn. Recommendations are included. (CH)

Document Ordering Instructions

All documents cited in this compilation of abstracts are available in their full text. Availability is by one of the options listed below:

1. ORIGINAL COPY FROM PUBLISHER OR SUPPLIER

   These documents have an availability listed in the resume. Often such documents are not available by any other means.

2. MICROFICHE AND HARD COPY REPRODUCTSION

   Documents with ED numbers are usually available individually on microfiche ($0.65 a title) or paper copy (xerox - $3.29 per 100 pages or fraction thereof) from:

   ERIC Document Reproduction Service (EDRS)
   P. O. Drawer O
   Bethesda, Maryland 20014

   Orders must specify ED number.

MANUFACTURING

Occupational Cluster Series

Abstracts of Instructional and
Research Materials

ACCESSION NUMBER: EC060120

CLEARINGHOUSE ACCESSION NUMBER: TM001278

PUBLICATION DATE: FEB 56

TITLE: = ASSEMBLER, ELECTRICAL ACCESSORIES II 7-00.904 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: *APTITUDE TESTS; ASSEMBLY (MANUFACTURING); *CUTTING SCORES; *ELECTRONIC TECHNICIANS; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: ELECTRICAL ACCESSORIES ASSEMBLER; GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 8P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-81

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: EC060118

CLEARINGHOUSE ACCESSION NUMBER: TM001276

PUBLICATION DATE: SEP 68

TITLE: FISHING-ROD ASSEMBLER (SPORTS EQUIP.) 732.884 -- TECHNICAL REPORT ON DEVELOPMENT OF USTES APTITUDE TEST BATTERY.

DESCRIPTOR: X *APTITUDE TESTS; ASSEMBLY (MANUFACTURING); *ATHLETIC EQUIPMENT; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; RECREATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: FISHING ROD ASSEMBLER; GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 13P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-79R

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED060115

CLEARINGHOUSE ACCESSION NUMBER: TM001273

PUBLICATION DATE: JUN 70

TITLE: ' SELECTED AIRCRAFT ASSEMBLY OCCUPATIONS (AIRCRAFT MFG.) -- TECHNICAL REPORT ON DEVELOPMENT OF USTES APTITUDE TEST BATTERY.

DESCRIPTOR: *AEROSPACE INDUSTRY; *APTITUDE TESTS; ASSEMBLY (MANUFACTURING); *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: AIRCRAFT ASSEMBLY OCCUPATIONS; GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 12P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-76R

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED060112

CLEARINGHOUSE ACCESSION NUMBER: TM001270

PUBLICATION DATE: JUN 66

TITLE: @ PRINTED-NAPKIN-MACHINE OPERATOR (PAPER GOODS) 649.885 -- TECHNICAL REPORT ON DEVELOPMENT OF USTES APTITUDE TEST BATTERY.

DESCRIPTOR: P *APTITUDE TESTS; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; *MACHINE TOOL OPERATORS; NORMS; OCCUPATIONAL GUIDANCE; PAPER (MATERIAL); *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: GATB; *GENERAL APTITUDE TEST BATTERY; PRINTED NAPKIN MACHINE OPERATOR

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 14P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLIHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE AND A PERSONNEL EVALUATION FORM ARE ALSO INCLUDED. (AG)

REPORT NUMBER: TR-S-73

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED060105

CLEARINGHOUSE ACCESSION NUMBER: TM001263

PUBLICATION DATE: AUG 55

TITLE: ASSEMBLER, DRY CELL BATTERY 9-00.91 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: G *APTITUDE TESTS; *ASSEMBLY (MANUFACTURING); *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: ASSEMBLER (DRY CELL BATTERY); GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-66

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: EC060095

CLEARINGHOUSE ACCESSION NUMBER: TM001253

PUBLICATION DATE: JUL 54

TITLE: > LIGHT-BULB ASSEMBLER 7-00.070 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: G *APTITUDE TESTS; *ASSEMBLY (MANUFACTURING); *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: GATB; *GENERAL APTITUDE TEST BATTERY; LIGHT BULB ASSEMBLER

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 8P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: CSES-TR-S-56

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: EC060092

CLEARINGHOUSE ACCESSION NUMBER: TM001250

PUBLICATION DATE: JUN 54

TITLE: : SPINNER, RING FRAME 682.885 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY. FINAL REPORT.

DESCRIPTOR: E *APTITUDE TESTS; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; *MACHINE TOOL OPERATORS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: GATB; *GENERAL APTITUDE TEST BATTERY; SPINNER RING FRAME

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 8P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AIDE IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TSES-TR-S-53

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: EC060091

CLEARINGHOUSE ACCESSION NUMBER: TM001249

PUBLICATION DATE: JUN 54

TITLE: FIREWORKS ASSEMBLER (FIREWORKS) 737.887 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: G *APTITUDE TESTS; *ASSEMBLY (MANUFACTURING); *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: FIREWORKS ASSEMBLER; GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TSES-TR-S-52

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED060086

CLEARINGHOUSE ACCESSION NUMBER: TM001244

PUBLICATION DATE: DEC 53

TITLE: : RECORD-PRESS TENDER 556.885 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY. FINAL REPORT.

DESCRIPTOR: E *APTITUDE TESTS; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; *MACHINE TOOL OPERATORS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: GATB; *GENERAL APTITUDE TEST BATTERY; RECORD PRESS TENDER

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: PSES-TR-S-46

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: EC060084

CLEARINGHOUSE ACCESSION NUMBER: TM001242

PUBLICATION DATE: SEP 53

TITLE: FORMING-PRESS OPERATOR 6-88.627 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: E *APTITUDE TESTS; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; *MACHINE TOOL OPERATORS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: FORMING PRESS OPERATOR; GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-44

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: EC060081

CLEARINGHOUSE ACCESSION NUMBER: TM001231

PUBLICATION DATE: JUL 53

TITLE: H BOARDER II 6-14.171; BOARDING-MACHINE OPERATOR 6-14.173 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: E *APTITUDE TESTS; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; *MACHINE TOOL OPERATORS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: < BOARDER; BOARDING MACHINE OPERATOR; GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 14P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-41

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSICN NUMBER: EC060080

CLEARINGHOUSE ACCESSION NUMBER: TM001230

PUBLICATICN DATE: JUN 70

TITLE: * SELECTED PRESS MAN OCCUPATIONS (PRINT. & PUB.) 651.782 -- TECHNICAL REPCRT ON DEVELOPMENT OF USTES APTITUDE TEST BATTERY.

DESCRIPTOR: U *APTITUDE TESTS; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; *MACHINE TOOL OPERATORS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; PRINTING; PUBLISHING INDUSTRY; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: 3 CYLINDER PRESS MAN; EMBOSSING PRESS OPERATOR; ENGRAVING PRESS OPERATOR; GATB; *GENERAL APTITUDE TEST BATTERY; OFFSET PRESS MAN; OVERLAY CUTTER; PLATEN PRESS MAN; WEB PRESS MAN

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 23P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITIDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE AND A PERSONNEL EVALUATION FORM ARE ALSO INCLUDED. (AG)

REPORT NUMBER: TR-S-40R

INSTITUTICN NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED060073

CLEARINGHOUSE ACCESSION NUMBER: TM001223

PUBLICATION DATE: OCT 52

TITLE: ? TURRET-LATHE OPERATOR 4-78.021 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: E *APTITUDE TESTS; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; *MACHINE TOOL OPERATORS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: GATB; *GENERAL APTITUDE TEST BATTERY; TURRET LATHE OPERATOR

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 9P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-33

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED051402

CLEARINGHOUSE ACCESSION NUMBER: VT013258

PUBLICATION DATE: JUN 71

TITLE: COMPARISON OF SUPER 8MM SILENT FILM LOOPS PRESENTATION VERSUS LIVE PRESENTATION FOR TEACHING MACHINE OPERATIONS.

PERSONAL AUTHOR: CUSHING, NELSON NORMAN

DESCRIPTOR: AUDIOVISUAL AIDS; *DOCTORAL THESES; *EXPERIMENTAL TEACHING; INDUSTRIAL ARTS; *INSTRUCTIONAL FILMS; *MACHINE TOOL OPERATORS; METALS; POST TESTING; PRETESTS; STATISTICAL ANALYSIS; *TEACHING TECHNIQUES; VOCATIONAL EDUCATION

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 220P.; ED.D. DISSERTATION; ARIZONA STATE UNIVERSITY

ISSUE: RIESEP71

ABSTRACT: Y THE PURPOSE OF THIS STUDY WAS TO COMPARE THE TEACHING OF MACHINE OPERATIONS USING SUPER 8MM SILENT FILM LOOPS PRESENTATIONS WITH LIVE PRESENTATIONS. SPECIFIC OBJECTIVES WERE TO DETERMINE IF FILM LOOPS ARE AN EFFECTIVE TECHNIQUE FOR TEACHING MACHINE OPERATIONS, TO DETERMINE THE POSSIBILITY OF USING THEM TO KEEP EDUCATION ABREAST OF TECHNOLOGICAL CHANGE, AND TO INDIVIDUALIZE INSTRUCTION. THE INVESTIGATOR DEVELOPED A COURSE OF STUDY, DAILY LESSON PLANS, 52 FILM LOOPS, AND A PRESENTATION SCHEDULE FOR USE IN TWO RANDOMLY SELECTED GENERAL METALS CLASSES. THE METHOD USED WAS A PARALLEL EQUATED-GROUP-ROTATIONAL DESIGN, AND THE STATISTICAL TREATMENT INVOLVED THE FISHER'S T-TEST, THE MANN-WHITNEY U-TEST, THE MEAN, AND CHI SQUARE. CONCLUSIONS WERE THAT THE TECHNIQUES OF INSTRUCTION DID NOT HAVE A SIGNIFICANT EFFECT ON THE IMMEDIATE ACHIEVEMENT OF KNOWLEDGE, THE RETENTION OF KNOWLEDGE, OR ON THE INDIVIDUAL ASSISTANCE REQUIRED OF THE INSTRUCTOR WHEN INSTRUCTOR-PRODUCED FILMS WERE USED. IT DID HAVE A SIGNIFICANT EFFECT ON AMOUNT OF INSTRUCTOR ASSISTANCE WHEN COMMERCIAL FILMS WERE USED AND STUDENTS CONSIDERED INSTRUCTOR FILMS SUPERIOR TO COMMERCIAL FILMS. IT WAS CONCLUDED THAT FILM PRESENTATIONS ARE EFFECTIVE FOR TEACHING MACHINE OPERATIONS. (GEB)

AVAILABILITY: UNIVERSITY MICROFILMS, INC., P.O. BOX 1764, ANN ARBOR, MICHIGAN 48106 (MF $4.00; XEROGRAPHY $10.00)

ACCESSION NUMBER: ED048171

CLEARINGHOUSE ACCESSION NUMBER: SP007058

PUBLICATION DATE: 68

TITLE: ? REGIONS OF MANUFACTURING ACTIVITY. RESOURCE UNIT IV, GRADE 4. PROVIDENCE SOCIAL STUDIES CURRICULUM PROJECT.

DESCRIPTOR: *CURRICULUM GUIDES; *GRADE 4; MANUFACTURING; *SOCIAL STUDIES; *URBAN TEACHING

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 15P.; PART OF A SET OF RESOURCE UNITS AND CURRICULUM OVERVIEWS FOR K-12 SOCIAL STUDIES

ISSUE: RIEJUN71

ABSTRACT: GRADES OR AGES: GRADE 4. SUBJECT MATTER: SOCIAL STUDIES; REGIONS OF MANUFACTURING ACTIVITY. ORGANIZATION AND PHYSICAL APPEARANCE: THE MAJOR PORTION OF THE GUIDE IS DIVIDED INTO THREE SUBUNITS, EACH OF WHICH IS LAID OUT IN THREE COLUMNS, ONE EACH FOR TOPICS, ACTIVITIES, AND MATERIALS. IT IS MIMEOGRAPHED AND STAPLE-BOUND WITH A PAPER COVER. OBJECTIVES AND ACTIVITIES: OBJECTIVES OF THE UNIT ARE LISTED ON THE FIRST PAGE. ACTIVITIES ARE LISTED IN THE SECOND COLUMN OF EACH SUBUNIT. EACH GROUP OF ACTIVITIES IS RELATED TO A TOPIC IN THE FIRST COLUMN. INSTRUCTIONAL MATERIALS: MATERIALS ARE LISTED IN THE THIRD COLUMN OF EACH SUBUNIT. EACH GROUP OF MATERIALS IS RELATED TO ONE OR MORE ACTIVITIES. IN ADDITION, AN APPENDIX LISTS RELEVANT ARTICLES FROM NATIONAL GEOGRAPHIC. STUDENT ASSESSMENT: A ONE-PAGE SECTION ENTITLED "EVALUATION" LISTS FIVE METHODS, SUCH AS HAVING STUDENTS WRITE ESSAYS ON MANUFACTURING PROCESSES OR FAMOUS INVENTORS. OPTIONS: THE GUIDE IS PRESCRIPTIVE AS TO COURSE CONTENT AND TIMING. ACTIVITIES AND MATERIALS LISTED ARE OPTIONAL. (RT)

REPORT NUMBER: CRP-6-1195

INSTITUTION NAME: PROVIDENCE PUBLIC SCHOOLS, R.I.; RHODE ISLAND COLL., PROVIDENCE.

SPONSORING AGENCY NAME: + OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. COOPERATIVE RESEARCH PROGRAM.

ACCESSION NUMBER: EC046836

CLEARINGHOUSE ACCESSION NUMBER: SC000571

PUBLICATION DATE: 26 NOV 70

TITLE: RESOURCE USE PLANNING.

PERSONAL AUTHOR: CLAWSON, MARION

DESCRIPTOR: E *CONSUMER ECONOMICS; CONSUMER EDUCATION; *ENVIRONMENTAL EDUCATION; *GOVERNMENT ROLE; MANUFACTURING; MASS PRODUCTION; *NATURAL RESOURCES; *POLLUTION; SOCIAL ENVIRONMENT; SOCIOECONOMIC INFLUENCES

IDENTIFIER: ECOSYSTEM; *SOCIAL CONTROL

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: B 12P.; PAPER PRESENTED AT THE ANNUAL CONVENTION, NATIONAL COUNCIL FOR THE SOCIAL STUDIES, NEW YORK, NEW YORK, NOVEMBER 26, 1970

ISSUE: RIEMAY71

ABSTRACT: ALTHOUGH THERE IS VALID CONCERN WITH THE LIMITED SUPPLY OF NATURAL RESOURCES AND HOW THIS SUPPLY IS AFFECTED BY INCREASING POPULATION AND A LIFE STYLE BASED ON CONSUMPTION, A MORE IMPORTANT CONCERN IS WITH THE FUTURE QUALITY OF THOSE NATURAL RESOURCES. THE FOCUS IN THE PAST HAS BEEN ON THE PRODUCTION OF GOODS FOR SALE, VERY LITTLE ON THE WELFARE OF THE CONSUMER, NOT AT ALL ON WHAT HAPPENS AFTER THE CONSUMER HAS DISCARDED A PRODUCT. BUT THERE IS INCREASING AWARENESS THAT UNLIMITED AND UNINHIBITED PERSONAL CONSUMPTION IS SIMPLY INCOMPATIBLE WITH PRESERVATION OF RESOURCES AND ENVIRONMENTAL QUALITY. AMERICAN PEOPLE WILL BE FORCED TO DECIDE HOW MUCH OF A TRADE-OFF THEY WANT TO MAKE BETWEEN ENVIRONMENTAL QUALITY AND CONSUMPTION. POLLUTION EXISTS NOT AS A RESULT OF THE EVIL ACTIONS OF ONE OR A FEW POLLUTERS, BUT AS PART OF A LARGE AND COMPLEX PRODUCTION AND CONSUMPTION STRUCTURE. FUNDAMENTAL CHANGES IN THIS WHOLE PRODUCTION-CONSUMPTION-RESIDUAL CYCLE WILL HAVE TO BE MADE AND, ALTHOUGH INDIVIDUAL ACTION HAS A ROLE IN THIS CHANGE, THIS ROLE IS LIMITED. GREATER SOCIAL-LEGAL CONTROLS OVER INDIVIDUAL ACTION WILL BE A NECESSARY FORCE IN BRINGING ABOUT THIS CHANGE. DESPITE THE LOSS TO THE INDIVIDUAL OF CERTAIN SPECIFIC FREEDOMS, A REASONABLE CURBING OF UNINHIBITED ACTION MAY ACTUALLY INCREASE FREEDOM FOR ALL. (JLB)

ACCESSION NUMBER: ED045823

CLEARINGHOUSE ACCESSION NUMBER: VT012003

PUBLICATION DATE: 70

TITLE: J A COMPARATIVE STUDY TO DETERMINE THE EFFICACY OF TWO INDUSTRIAL ARTS PROGRAM APPROACHES UPON PUPILS' ATTITUDES TOWARD MANUFACTURING INDUSTRY.

PERSONAL AUTHOR: FAZZINI, PHILLIP ALBERT

DESCRIPTOR: X BIBLIOGRAPHIES; COMPARATIVE ANALYSIS; *CONVENTIONAL INSTRUCTION; DOCTORAL THESES; EDUCATIONAL RESEARCH; *INDUSTRIAL ARTS; *INSTRUCTIONAL INNOVATION; *MANUFACTURING INDUSTRY; PAROCHIAL SCHOOLS; PUBLIC SCHOOLS; *STUDENT ATTITUDES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 204P.

ISSUE: RIEAPR71

ABSTRACT: THIS EXPERIMENTAL STUDY WAS DESIGNED TO DETERMINE THE DIFFERENCES IN ATTITUDES TOWARD THE MANUFACTURING INDUSTRY AMONG PUPILS ENROLLED IN (1) A CONVENTIONAL INDUSTRIAL ARTS PROGRAM, (2) AN INNOVATIVE INDUSTRIAL ARTS PROGRAM, AND (3) A PAROCHIAL SCHOOL HAVING NO INDUSTRIAL ARTS PROGRAM. A SELF-CONSTRUCTED ATTITUDE SCALE WAS ADMINISTERED TO 128 EIGHTH GRADE STUDENTS; VARIABLES WERE CONTROLLED STATISTICALLY USING ANALYSIS OF COVARIANCE. CONCLUSIONS WERE: (1) IT IS POSSIBLE TO CONSTRUCT A SCALE WHICH WILL MEASURE ATTITUDES ABOUT MANUFACTURING INDUSTRY, (2) THE FOSTERING OF POSITIVE ATTITUDES IS AN ATTAINABLE OBJECTIVE FOR INDUSTRIAL ARTS, (3) THE CONVENTIONAL METHOD OF TEACHING IS MORE SUCCESSFUL IN FOSTERING POSITIVE ATTITUDES TOWARD MANUFACTURING THAN THE INNOVATIVE PROGRAM USED IN THIS STUDY, (4) THE CONVENTIONAL PROGRAM IS MORE SUCCESSFUL IN FOSTERING MORE POSITIVE ATTITUDES TOWARD AUTOMATION, OCCUPATIONAL ASPECTS OF MANUFACTURING INDUSTRY, WORKING CONDITIONS, AND PRODUCTION ASPECTS OF MANUFACTURING INDUSTRY, AND (5) THE INNOVATIVE INDUSTRIAL ARTS GROUP MAY HAVE HAD A MORE REALISTIC REPRESENTATION OF MODERN INDUSTRY, THEREFORE AFFORDING THEM THE BACKGROUND TO DISCERN AND BECOME MORE OBJECTIVE TOWARD THE ATTITUDE SCALED ITEMS. THIS PH.D. THESIS WAS SUBMITTED TO THE OHIO STATE UNIVERSITY. (GR)

AVAILABILITY: | UNIVERSITY MICROFILMS, INC., 300 NORTH ZEEB ROAD, ANN ARBOR, MICHIGAN 48106

ACCESSION NUMBER: EC045524

CLEARINGHOUSE ACCESSION NUMBER: SC000432

PUBLICATION DATE: FEB 67

TITLE: MANUFACTURING. EVALUATION REPORT FROM A LIMITED SCHOOL TRIAL OF A TEACHING UNIT OF THE HIGH SCHOOL GEOGRAPHY PROJECT.

PERSONAL AUTHOR: BOGATZ, GERRY ANN

DESCRIPTOR: ACTIVITY UNITS; CONCEPT TEACHING; CURRICULUM DEVELOPMENT; *CURRICULUM EVALUATION; DECISION MAKING SKILLS; EDUCATIONAL GAMES; *ENVIRONMENTAL EDUCATION; *FIELD STUDIES; FUNDAMENTAL CONCEPTS; *GEOGRAPHY; INDUCTIVE METHODS; LEARNING ACTIVITIES; MANUFACTURING; SECONDARY GRADES; SIMULATION; SOCIAL STUDIES UNITS; *URBAN AREAS

IDENTIFIER: *HIGH SCHOOL GEOGRAPHY PROJECT; HSGP

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.00

DESCRIPTIVE NOTE: 58P.

ISSUE: RIEAPR71

ABSTRACT: THE METHODOLOGY USED IN THE EVALUATION OF THIS UNIT IS THE SAME AS THAT DESCRIBED IN SO 000 433. THE SAME SEVENTY TEACHERS WERE INVOLVED ALONG WITH 2,400 SEVENTH THROUGH TWELFTH GRADE STUDENTS. THERE WERE NINE ACTIVITIES IN THIS UNIT: 1) GEOGRAPHIC PATTERNS OF MANUFACTURING IN THE UNITED STATES; 2) DEFINITION OF MANUFACTURING; 3) AND 4) MANUFACTURING THE URBAN ECONOMY; 5) LOCATION-DECISION GAME; 6) PLANT LOCATION WITHIN A METROPOLITAN AREA; 7) SUMMARY LOCATION-DECISION CONCEPTS; 8) THE IMPACT OF THE METFAB COMPANY ON AN URBAN ECONOMY; AND 9) FOREIGN EXPANSION OF THE METFAB COMPANY. EACH ACTIVITY IN THE UNIT WAS DESCRIBED WITH THE TEACHER GUIDE IN TERMS OF THE MAJOR CONCEPTS TO BE TAUGHT, THE MATERIALS NEEDED, AN ESTIMATED TEACHING TIME, A SUGGESTED PROCEDURE TO BE FOLLOWED IN CLASS, AND ANSWERS TO QUESTIONS IN THE STUDENTS' MATERIALS (A MANUAL OF EXERCISES). THE SPECIFIC PURPOSES OF THIS UNIT WERE TO INCREASE STUDENT ANALYTIC AND DECISION-MAKING ABILITIES, AND STUDENT AWARENESS OF THE SPATIAL DIMENSIONS OF THEIR ENVIRONMENT. TEACHERS AND STUDENTS FOUND THAT THE UNIT HAD PROMOTED THE INDUCTIVE REASONING APPROACH THAT WAS DESIRED FOR ALL OF THE UNITS. THEY ALSO FELT THAT THE GREATEST STRENGTH OF THE UNIT WAS THE ROLE-PLAYING ACTIVITY (5). THE UNIT TEST, EVALUATION FORMS, AND STATISTICS ARE APPENDED. SEE SO 000 433 FOR A LIST OF THE RELATED REPORTS. (SBE)

INSTITUTION NAME: EDUCATIONAL TESTING SERVICE, PRINCETON, N.J.

SPONSORING AGENCY NAME: DASSOCIATION OF AMERICAN GEOGRAPHERS, WASHINGTON, D.C.; NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.

ACCESSION NUMBER: ED044190

CLEARINGHOUSE ACCESSION NUMBER: RC004211

PUBLICATION DATE: DEC 66

TITLE: INDUSTRIAL LOCATION RESEARCH STUDIES: REPORTS 9-16.

DESCRIPTOR: *ECONOMIC DEVELOPMENT; *INDUSTRIALIZATION; MACHINERY INDUSTRY; *MANPOWER UTILIZATION; MANUFACTURING; METAL INDUSTRY; *REGIONAL PLANNING; *RURAL AREAS; VOCATIONAL EDUCATION

IDENTIFIER: *APPALACHIA

EDRS PRICE: EDRS PRICE MF-$1.25 HC-$14.00

DESCRIPTIVE NOTE: 278P.

ISSUE: RIEMAR71

ABSTRACT: EIGHT STUDIES IDENTIFY, EXAMINE, AND EVALUATE SIGNIFICANT ELEMENTS OF INDUSTRY-LOCATION DECISIONS AS THEY RELATE DIRECTLY OR INDIRECTLY TO PUBLIC INVESTMENT POLICIES AND ACTIVITIES THAT MAY BE CONSIDERED AS ECONOMIC GROWTH STIMULANTS FOR THE APPALACHIAN REGION. EXAMINED IN THE DOCUMENT ARE THE CHLOR-ALKALI INDUSTRY; THE MANUFACTURING OF TRUCKS, TRACTORS, ETC.; THE MOBILE-HOME AND SPECIAL-PURPOSE-VEHICLE INDUSTRIES; THE INSTRUMENTS AND CONTROLS INDUSTRY; THE SYNTHETIC-FIBER INDUSTRY; THE METAL-STAMPINGS INDUSTRY; THE AIRCRAFT- AND AEROSPACE-PARTS INDUSTRY; AND THE PRIMARY-ALUMINUM INDUSTRY. AS NECESSARY BACKGROUND, THE DOCUMENT PRESENTS INFORMATION ON THE STRUCTURE OF EACH INDUSTRY, ITS ECONOMIC IMPACT, PROSPECTS FOR GROWTH, AND DEVELOPMENTS IN TECHNOLOGY THAT ARE GERMANE TO LOCATIONAL ACTIVITY. THE EMPHASIS, AS NOTED, IS ON TRENDS NOW SHAPING INDUSTRY GROWTH RATHER THAN BEING ON HISTORICAL DEVELOPMENTS WHICH NO LONGER MAY BE SIGNIFICANT IN THE OUTLOOK. ADDITIONALLY, VOCATIONAL TRAINING IS SEEN AS PLAYING A SIGNIFICANT ROLE IN SELECTING PUBLIC INVESTMENT FACILITIES WHICH WILL ENHANCE THE COMPETITIVE POSITION OF APPALACHIA. (RELATED DOCUMENTS ARE RC 004 206 AND RC 004 210.) (EL)

REPORT NUMBER: ARR-6

AVAILABILITY: THE FANTUS COMPANY, INC., FANTUS AREA RESEARCH DIVISION, 430 PARK AVENUE, NEW YORK, N.Y. ($2.50)

INSTITUTION NAME: FANTUS CO., INC., NEW YORK, N.Y.

SPONSORING AGENCY NAME: DAPPALACHIAN REGIONAL COMMISSION, WASHINGTON, D.C.

ACCESSION NUMBER: ED043801

CLEARINGHOUSE ACCESSION NUMBER: AA000636

PUBLICATION DATE: APR 70

TITLE: ; DISSEMINATION OF EDUCATIONAL PRODUCTS DEVELOPED UNDER USOE SPONSORSHIP. CONFERENCE REPORT.

DESCRIPTOR: *CONFERENCES; *COPYRIGHTS; *INSTRUCTIONAL MATERIALS; MANUFACTURING INDUSTRY; *POLICY; PUBLISHING INDUSTRY

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.40

DESCRIPTIVE NOTE: N 66P.; REPORT OF CONFERENCE INITIATED BY U.S. OFFICE OF EDUCATION, NATIONAL CENTER FOR EDUCATIONAL COMMUNICATION, WASHINGTON, D.C. AND THE INSTITUTE FOR EDUCATIONAL DEVELOPMENT, NEW YORK, N.Y. APRIL 23-24, 1970

ISSUE: RIEMAR71

ABSTRACT: M THE NATIONAL CENTER FOR EDUCATIONAL COMMUNICATION (USOE) INITIATED WITH THE INSTITUTE FOR EDUCATIONAL DEVELOPMENT THE CONCEPT OF A CONFERENCE WHICH WOULD BRING THE USOE-SPONSORED RESEARCH AND DEVELOPMENT CENTERS AND REGIONAL EDUCATIONAL LABORATORIES TOGETHER WITH PUBLISHERS AND MANUFACTURERS WHO MIGHT ASSIST THEM IN DEVELOPING THEIR PRODUCTS AND IN MOVING THEM INTO WIDESPREAD USE IN SCHOOLS. ANOTHER OBJECTIVE WAS TO GENERATE SPECIFIC POLICY RECOMMENDATIONS FOR THE U.S. OFFICE OF EDUCATION. THE GOVERNMENT'S INTEREST IN MAKING USOE-SPONSORED PRODUCTS READILY AVAILABLE TO SCHOOLS AND ALSO THE EFFECT THE NEW USOE COPYRIGHT POLICIES MIGHT HAVE ON THE DEVELOPMENT AND THE DISSEMINATION OF THOSE PRODUCTS WAS PRESENTED BY GOVERNMENT OFFICIALS. AS BACKGROUND MATERIAL FOR THESE PRESENTATIONS, COPIES OF OLD AND NEW USOE COPYRIGHT GUIDELINES WERE DISTRIBUTED. THE MATERIALS DISTRIBUTED AT THE CONFERENCE AND ALL PAPERS PRESENTED BY THE PARTICIPANTS ON THE FIRST DAY ARE INCLUDED IN THIS REPORT. ON THE SECOND DAY SMALL TASK GROUPS FORMULATED RECOMMENDATIONS THEY WOULD MAKE TO USOE AS A TOTAL GROUP OF CONFEREES. THE RECOMMENDATIONS ARE INCLUDED IN THIS REPORT AND ARE ADDRESSED TO THE FOLLOWING AUDIENCES: (1) GOVERNMENT-SPONSORED AGENCIES AND INDIVIDUAL PROJECTS WHICH DEVELOP NEW FORMS OF EDUCATIONAL PRACTICES; (2) PUBLISHERS AND MANUFACTURERS OF EDUCATIONAL MATERIALS, AND (3) THE UNITED STATES OFFICE OF EDUCATION. (ON)

CONTRACT NUMBER: OEC-0-70-3573

BUREAU NUMBER: BR-0-8017

INSTITUTION NAME: INSTITUTE FOR EDUCATIONAL DEVELOPMENT, NEW YORK, N.Y.

SPONSORING AGENCY NAME: (DNATIONAL CENTER FOR EDUCATIONAL COMMUNICATION (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBER: ED043758

CLEARINGHOUSE ACCESSION NUMBER: VT011759

PUBLICATION DATE: 70

TITLE: A QUASI-EXPERIMENTAL STUDY OF TWO SELECTED UNITS OF THE INDUSTRIAL ARTS CURRICULUM PROJECT MATERIALS TO DETERMINE THE MEASURABLE ADDITIVE EFFECTS OF A UNIT ON DESIGN IN MANFACTURING TECHNOLOGY UPON A SIMILAR UNIT ON DESIGN IN CONSTRUCTION TECHNOLOGY.

PERSONAL AUTHOR: KUWIK, PAUL DAVID

DESCRIPTOR: *ACHIEVEMENT GAINS; BIBLIOGRAPHIES; *COMPARATIVE ANALYSIS; CONSTRUCTION INDUSTRY; *INDUSTRIAL ARTS; *JUNIOR HIGH SCHOOL STUDENTS; *LEARNING; MANUFACTURING INDUSTRY; MEASUREMENT INSTRUMENTS; RESEARCH; SUCCESS FACTORS; UNITS OF STUDY (SUBJECT FIELDS)

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 188P.

ISSUE: RIEFEB71

ABSTRACT: THE PURPOSE OF THE STUDY WAS TO DETERMINE WHETHER EXPOSING JUNIOR HIGH SCHOOL STUDENTS TO A UNIT ON DESIGN IN CONSTRUCTION TECHNOLOGY AND TO A UNIT ON DESIGN IN MANUFACTURING TECHNOLOGY SIGNIFICANTLY AFFECTS THEIR ACHIEVEMENT ON A TEST MEASURING "TECHNOLOGICAL PRINCIPLES OF DESIGN" WHEN COMPARED TO A GROUP OF JUNIOR HIGH SCHOOL STUDENTS EXPOSED ONLY TO A UNIT ON DESIGN IN CONSTRUCTION TECHNOLOGY. THE DATA FROM FOUR TREATMENT GROUPS IN THE LONG BEACH UNIFIED SCHOOL DISTRICT IN CALIFORNIA WERE ANALYZED, AND RESULTS INDICATED THAT THERE WAS A SIGNIFICANT AMOUNT OF ADDITIVE KNOWLEDGE WHEN STUDENTS HAD BEEN EXPOSED TO TWO UNITS IN DESIGN, ONE IN CONSTRUCTION TECHNOLOGY AND ONE IN MANUFACTURING TECHNOLOGY, AS OPPOSED TO ONLY ONE EXPOSURE OF CONSTRUCTION TECHNOLOGY. STATISTICAL ANALYSIS ALSO INDICATED A SIGNIFICANT DIFFERENCE BETWEEN THE ACHIEVEMENT SCORES OF THE SEVENTH GRADE CONTROL GROUP AND THE SEVENTH GRADE EXPERIMENTAL GROUP, WITH THE LATTER GROUP ACHIEVING AT A HIGHER LEVEL. THE FINDINGS INDICATE THAT THE TECHNOLOGICAL CONCEPTS AND PRINCIPLES OF DESIGN ARE SIGNIFICANTLY ADDITIVE WHEN A SECOND UNIT (IN MANFACTURING) IS PROVIDED TO BUILD UPON THE CONCEPTS PROVIDED BY A PRIOR DESIGN UNIT (IN CONSTRUCTION). THIS PH.D. THESIS WAS SUBMITTED TO THE OHIO STATE UNIVERSITY. (GR)

AVAILABILITY: | UNIVERSITY MICROFILMS, INC., 300 NORTH ZEEB ROAD, ANN ARBOR, MICHIGAN 48106

ACCESSION NUMBER: ED041173

CLEARINGHOUSE ACCESSION NUMBER: VT011531

PROGRAM AREA: 08

PUBLICATION DATE: 69

TITLE: MACHINE TOOL OPERATION, COURSE DESCRIPTION.

PERSONAL AUTHOR: DENNY, WALTER E.; ANDERSON, FLOYD L.

DESCRIPTOR: ANNOTATED BIBLIOGRAPHIES; COURSE DESCRIPTIONS; COURSE OBJECTIVES; *CURRICULUM GUIDES; *DISADVANTAGED YOUTH; DROPOUT PROGRAMS; *DROPOUT REHABILITATION; *MACHINE TOOL OPERATORS; MACHINISTS; MOTIVATION TECHNIQUES; SEMISKILLED WORKERS; TEACHING TECHNIQUES; *TRADE AND INDUSTRIAL EDUCATION

IDENTIFIER: *ELEMENTARY SECONDARY EDUCATION ACT TITLE III; ESEA TITLE III

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.80

DESCRIPTIVE NOTE: 34P.

ISSUE: RIENOV70

ABSTRACT: PREPARED BY AN INSTRUCTOR AND CURRICULUM SPECIALISTS, THIS COURSE OF STUDY WAS DESIGNED TO MEET THE INDIVIDUAL NEEDS OF THE DROPOUT AND/OR HARD-CORE UNEMPLOYED YOUTH BY PROVIDING THEM SKILL TRAINING, RELATED INFORMATION, AND SUPPORTIVE SERVICES KNOWLEDGE IN MACHINE TOOL OPERATION. THE ACHIEVEMENT LEVEL OF EACH STUDENT IS DETERMINED AT ENTRY, AND SMALL INSTRUCTIONAL UNITS PROVIDE CONTINUING POSITIVE REINFORCEMENT AND MINIMIZE FRUSTRATION. TRAINING IN MACHINE TOOL OPERATION STRESSES THE DEVELOPMENT OF SKILLS THROUGH PRACTICAL EXPERIENCES. MACHINES USED INCLUDE THE DRILL PRESS, ENGINE LATHE, BENCH GRINDER, SURFACE GRINDER, CUTOFF SAW, AND VERTICAL AND HORIZONTAL MILLING MACHINES. UPON COMPLETION OF THIS TRAINING THE STUDENT IS QUALIFIED FOR A VARIETY OF ENTRY LEVEL POSITIONS IN MACHINE SHOPS. BRIEF DESCRIPTIONS OF OTHER INSTRUCTIONAL AREAS, TEACHING TECHNIQUES, MATERIAL UTILIZATION, MOTIVATIONAL DEVICES, AND CASE STUDIES ARE APPENDED. RELATED MATERIALS ARE AVAILABLE AS VT 011 518-VT 011 533 IN THIS ISSUE. (GR)

GRANT NUMBER: OEG-3-6-000383-0848

BUREAU NUMBER: BR-5-0187

INSTITUTION NAME: MINNEAPOLIS PUBLIC SCHOOLS, MINN. WORK OPPORTUNITY CENTER.

SPONSORING AGENCY NAME: DOFFICE OF EDUCATION (DHEW), WASHINGTON, D.C. BUREAU OF RESEARCH.

ACCESSION NUMBER: ED039354

CLEARINGHOUSE ACCESSION NUMBER: VT011021

PUBLICATION DATE: JUN 70

TITLE: # A STUDY TO DETERMINE THE EDUCATIONAL NEEDS OF INDUSTRIAL TECHNOLOGISTS IN THE AUTOMOTIVE-TYPE MANUFACTURING INDUSTRIES.

PERSONAL AUTHOR: HALL, RONALD WALTER

DESCRIPTOR: BIBLIOGRAPHIES; DOCTORAL THESES; *EDUCATIONAL NEEDS; *EMPLOYMENT QUALIFICATIONS; *INDUSTRIAL PERSONNEL; *INDUSTRIAL TECHNOLOGY; *MANUFACTURING INDUSTRY; NATIONAL SURVEYS; QUESTIONNAIRES; TRADE AND INDUSTRIAL EDUCATION

IDENTIFIER: AUTOMOTIVE TYPE MANUFACTURING INDUSTRIES; *INDUSTRIAL TECHNOLOGISTS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 161P.

ISSUE: RIESEP70

ABSTRACT: QUESTIONNAIRES WERE USED TO GATHER DATA ABOUT EDUCATIONAL NEEDS OF INDUSTRIAL TECHNOLOGISTS IN THE AUTOMOTIVE-TYPE MANUFACTURING INDUSTRIES IN THE UNITED STATES. EACH OF THE 101 ESTABLISHMENTS RECEIVED FOUR QUESTIONNAIRES; 67 (66.3 PERCENT) RETURNED ONE OR MORE OF THE QUESTIONNAIRES. THE RESPONSES OF THE SELECTED INDIVIDUALS WERE ANALYZED BY MULTIPLE CLASSIFICATION ANALYSIS OF VARIANCE AND DESCRIPTIVE STATISTICAL METHODS. THE CONCLUSIONS WERE: (1) MANUFACTURING INDUSTRIES CONTACTED WILL NEED APPROXIMATELY 14,897 (40 PERCENT) ADDITIONAL TECHNOLOGISTS BY 1974 TO FILL NEW AND REPLACEMENT POSITIONS, (2) EMPLOYMENT REQUIREMENTS ARE THE SAME THROUGHOUT THE AUTOMOTIVE-TYPE MANUFACTURING INDUSTRIES, (3) EMPLOYMENT REQUIREMENTS INCLUDE EDUCATION AND TRAINING IN SPECIFIC SUBJECT AREAS AND SUGGESTED PRACTICAL WORK EXPERIENCE, (4) HIGHER EDUCATION IS PRESENTLY DOING AN INCOMPLETE JOB OF EDUCATION AND TRAINING EXCEPT IN SCIENCE AND MATHEMATICS, (5) EDUCATION AND TRAINING OF AUTOMOTIVE TECHNOLOGISTS COULD BE IMPROVED IN SEVERAL DIFFERENT AREAS, AND (6) FUTURE OPPORTUNITIES FOR TECHNOLOGISTS IN THE AUTOMOTIVE-TYPE MANUFACTURING INDUSTRIES ARE EXCELLENT. THIS PH.D. THESIS WAS SUBMITTED TO ARIZONA STATE UNIVERSITY. (GR)

AVAILABILITY: | UNIVERSITY MICROFILMS, INC., 300 NORTH ZEEB ROAD, ANN ARBOR, MICHIGAN 48106

ACCESSION NUMBER: EC038542

CLEARINGHOUSE ACCESSION NUMBER: VT010893

PUBLICATION DATE: 9 APR 70

TITLE: ANNOTATED BIBLIOGRAPHY OF PERIODICAL ARTICLES RELATED TO THE INTERPRETATION OF INDUSTRY, 1960-1970.

PERSONAL AUTHOR: BLANKENBAKER, KEITH; MILLER, W. R.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; CURRICULUM; EDUCATIONAL PHILOSOPHY; *INDUSTRIAL ARTS; *INDUSTRIAL EDUCATION; MASS PRODUCTION; OCCUPATIONAL INFORMATION; RESEARCH PROBLEMS; TEACHER GUIDANCE

IDENTIFIER: *AMERICAN INDUSTRIAL ARTS ASSOCIATION CONVENTION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.05

DESCRIPTIVE NOTE: 19P.; PRESENTED AT THE AMERICAN INDUSTRIAL ARTS ASSOCATION CONVENTION (APRIL 9, 1970)

ISSUE: RIEAUG70

ABSTRACT: 8 THIS ANNOTATED BIBLIOGRAPHY IS COMPOSED OF 100 CITATIONS COVERING THE PERIOD FROM 1960 TO 1970. ALL ENTRIES ARE JOURNAL ARTICLES RELATED TO THE INTERPRETATION OF INDUSTRY OR OPERATIONAL ASPECTS OF TECHNOLOGY IN INDUSTRIAL ARTS. LISTINGS ARE ARRANGED ALPHABETICALLY ACCORDING TO AUTHOR UNDER THE GENERAL DIVISIONS OF PHILOSOPHY AND RATIONALE, CURRICULAR PROGRAMS, COURSES, AND TEACHER DESIGNED EXPERIENCES WHICH INCLUDE MASS PRODUCTION, RESEARCH AND EXPERIMENTATION, AND OCCUPATIONAL ORIENTATION. (GR)

INSTITUTION NAME: AMERICAN INDUSTRIAL ARTS ASSOCIATION, WASHINGTON, D.C.

ACCESSION NUMBER: EC036091

CLEARINGHOUSE ACCESSION NUMBER: EF003849

PUBLICATION DATE: NOV 69

TITLE: DECENTRALIZED MODULAR SYSTEMS VERSUS CENTRALIZED SYSTEMS.

PERSONAL AUTHOR: CROSSEY, R. E.

DESCRIPTOR: ARCHITECTURAL ELEMENTS; *BUILDING DESIGN; BUILDING EQUIPMENT; *COMPONENT BUILDING SYSTEMS; CONSTRUCTION NEEDS; COSTS; DESIGN NEEDS; *EQUIPMENT MANUFACTURERS; FLEXIBLE FACILITIES; *MECHANICAL DESIGN TECHNICIANS; *MECHANICAL EQUIPMENT; MODULAR BUILDING DESIGN; PERFORMANCE SPECIFICATIONS; PLANNING; STRUCTURAL BUILDING SYSTEMS

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.50

DESCRIPTIVE NOTE: , 8P.; SPEECH PRESENTED AT COLLEGES OF APPLIED ARTS AND TECHNOLOGY DESIGN WORKSHOP, OTTAWA, NOV. 18, 1969

ISSUE: RIEJUN70

ABSTRACT: N BUILDING DESIGN, PLANNING, AND CONSTRUCTION PROGRAMING FOR MODULAR DECENTRALIZED MECHANICAL BUILDING SYSTEMS ARE OUTLINED IN TERMS OF COSTS, PERFORMANCE, EXPANSION AND FLEXIBILITY. DESIGN STRATEGY, APPROACH, AND GUIDELINES FOR IMPLEMENTING SUCH SYSTEMS FOR BUILDINGS ARE SUGGESTED, WITH EMPHASIS ON MECHANICAL EQUIPMENT AND BUILDING ELEMENT REPETITION. THE TECHNOLOGICAL GAPS ARE OVERVIEWED BETWEEN BUILDING DESIGN AND THE CONSTRUCTION AND BUILDING INDUSTRIES. (TG)

ACCESSION NUMBER: ED035451

CLEARINGHOUSE ACCESSION NUMBER: PS002743

PUBLICATION DATE: OCT 69

TITLE: WORKTABLE ON WHEELS.

PERSONAL AUTHOR: GLOCKNER, MARY

DESCRIPTOR: L ASSEMBLY (MANUFACTURING); *CLASSROOM FURNITURE; EARLY CHILDHOOD EDUCATION; FLEXIBLE FACILITIES; *FURNITURE DESIGN; KINDERGARTEN; PRIMARY GRADES

IDENTIFIER: FOLLOW THROUGH; HEAD START

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.20

DESCRIPTIVE NOTE: 2P.

ISSUE: RIEMAY70

ABSTRACT: G THIS ARTICLE BRIEFLY DESCRIBES THE FUNCTION AND FEATURES OF THE SMITH CIRCULAR LEARNING STATION USED IN CHATTANOOGA, TENNESSEE'S HEAD START AND FOLLOW THROUGH PROGRAM. THE STATIONS ARE USED IN PLACE OF TRADITIONAL ROWS OF CLASSROOM DESKS. EACH STATION CONSISTS OF A MOBILE WORKTABLE AND A SET OF STACKABLE CHAIRS. CHILDREN ARE ALLOWED TO MOVE ABOUT FREELY, AND TO PARTICIPATE IN A NUMBER OF LEARNING ACTIVITIES. THE WORKTABLES ALLOW GREATER FLEXIBILITY IN THE CLASSROOM, ARE INEXPENSIVE TO BUILD, ARE EQUIPPED WITH A SELF-CONTAINED EXTENSION CORD AND JACK, ARE EASY TO FOLD, AND SAVE SPACE. THE ARTICLE ALSO INCLUDES A LIST OF BUILDING MATERIALS FOR THE WORKTABLE, AND CONSTRUCTION PLAN AND DIMENSIONS. (JF)

JOURNAL CITATION: HEAD START NEWSLETTER; V4 N7 P6-7 OCT 1969

INSTITUTION NAME: ERIC CLEARINGHOUSE ON EARLY CHILDHOOD EDUCATION, URBANA, ILL.

SPONSORING AGENCY NAME: + DOFFICE OF ECONOMIC OPPORTUNITY, WASHINGTON, D.C. COMMUNITY ACTION PROGRAM.

ACCESSION NUMBER: ED027507

CLEARINGHOUSE ACCESSION NUMBER: AC004225

PUBLICATION DATE: 69

TITLE: THE DISCOVERY METHOD; AN INTERNATIONAL EXPERIMENT IN RETRAINING. EMPLOYMENT OF OLDER WORKERS, 6.

PERSONAL AUTHOR: BELBIN, R.M.

DESCRIPTOR: AGE DIFFERENCES; CONVENTIONAL INSTRUCTION; DATA PROCESSING; *DISCOVERY LEARNING; ELECTRICAL OCCUPATIONS; ENGINEERING DRAWING; EVALUATION; *EXPERIMENTAL PROGRAMS; LOCOMOTIVE ENGINEERS; MACHINISTS; *MIDDLE AGED; PERFORMANCE; PROGRAMED INSTRUCTION; RESEARCH; *VOCATIONAL RETRAINING; *YOUNG ADULTS

IDENTIFIER: AUSTRIA; GREAT BRITAIN; SWEDEN; *UNITED STATES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 86P.

ISSUE: RIEAUG69

ABSTRACT: SEVERAL DEMONSTRATION PROGRAMS WERE USED IN TRAINING OLDER WORKERS IN FOUR MEMBER COUNTRIES OF THE ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT. THE AUSTRIAN PROGRAM WAS A STONEMASONRY COURSE FOR PERSONS AGED 18 TO 55, ONE GROUP USING TRADITIONAL METHODS AND THE OTHER, THE DISCOVERY (DISCRIMINATION LEARNING) METHOD. IN THE UNITED KINGDOM, A STUDY OF 83 FORMER STEAM LOCOMOTIVE ENGINEERS BEING RETRAINED FOR DIESEL-ELECTRIC LOCOMOTIVES COMPARED THE TWO METHODS AND THE PERFORMANCE OF YOUNGER (AGES 29-30) AND OLDER (40-62) TRAINEES. IN THE SWEDISH STUDY, 22 SUBJECTS AGED 18-29 AND 23 AGED 40-56 WERE TRAINED IN READING AND INTERPRETATION OF ENGINEERING DRAWINGS; TRADITIONAL, COMPENDIUM (WITH PROGRAMED INSTRUCTION BOOKS), AND DISCOVERY METHODS WERE COMPARED. THE UNITED STATES PROJECT TRAINED 242 SUBJECTS, AGED 23-65, IN SEPARATE 26-WEEK COURSES IN ELECTRICAL WORK, DATA PROCESSING, AND MACHINE SHOP WORK, WITH EACH SKILL AREA DIVIDED BETWEEN TRADITIONAL AND DISCOVERY METHODS. OVERALL FINDINGS SEEMED TO INDICATE THAT THE DISCOVERY METHOD IS USEFUL IF TUNED TO A GIVEN GROUP AND THAT, WITH APPROPRIATE TRAINING, A HIGHER THAN USUAL TRAINING AGE GIVES NO SERIOUS DISADVANTAGE. (LY)

AVAILABILITY: OECD PUBLICATIONS CENTER, SUITE 1305, 1750 PENNSYLVANIA AVE., N.W., WASHINGTON, D.C. 20006 (NO.24,941, $3.00)

INSTITUTION NAME: ORGANISATION FOR ECONOMIC COOPERATION AND DEVELOPMENT, PARIS (FRANCE).

ACCESSION NUMBER: EC034940

CLEARINGHOUSE ACCESSION NUMBER: AC006205

PUBLICATION DATE: JUN 69

TITLE: PROSIM V, STUDENT MANUAL. TECHNICAL REPORT.

PERSONAL AUTHOR: MIZE, JOE H.; AND OTHERS

DESCRIPTOR: M COMPUTERS; COST EFFECTIVENESS; DECISION MAKING; MANAGEMENT; MANUALS; *MANUFACTURING INDUSTRY; MODELS; *PRODUCTIVITY; PROGRAMING; *QUALITY CONTROL; RESEARCH; *SIMULATION; SYSTEMS ANALYSIS; *SYSTEMS DEVELOPMENT

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 62P.

ISSUE: RIEMAY70

ABSTRACT: 6 A PRODUCTION SYSTEM SIMULATOR HAS BEEN DEVELOPED WHICH IS CAPABLE OF SIMULATING A WIDE VARIETY OF REALISTIC MANUFACTURING ENVIRONMENTS. THE SIMULATOR IS USED AS AN AID IN TEACHING THE CONCEPTS OF DESIGNING PRODUCTION CONTROL SYSTEMS AND AS A RESEARCH VEHICLE FOR INVESTIGATING VARIOUS ASPECTS OF CONTROL THEORY FOR PRODUCTION SYSTEMS. THIS REPORT CONTAINS THE STUDENT MANUAL, WHICH EXPLAINS HOW THE SIMULATOR WORKS AND HOW IT CAN BE USED TO ASSIST IN DESIGNING A COMPLEX CONTROL SYSTEM. (AUTHOR/LY)

AVAILABILITY: CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION, SPRINGFIELD, VIRGINIA 22151 (AD-691-449, MF $0.65, HC $3.00)

INSTITUTION NAME: AUBURN UNIV., ALA.

ACCESSION NUMBER: ED034039

CLEARINGHOUSE ACCESSION NUMBER: VT009614

PUBLICATION DATE: JUL 69

TITLE: BENEFIT-COST ANALYSIS OF TAT PHASE I WORKER TRAINING. TRAINING AND TECHNOLOGY PROJECT. SPECIAL REPORT.

PERSONAL AUTHOR: KIRBY, FREDERICK C.; CASTAGNA, PAUL A.

DESCRIPTOR: D *COST EFFECTIVENESS; DRAFTING; ELECTRONICS; EXPERIMENTAL PROGRAMS; MACHINISTS; QUALITY CONTROL; *SKILLED WORKERS; *STATISTICAL ANALYSIS; TABLES (DATA); *TRAINING; VOCATIONAL EDUCATION; WELDING

IDENTIFIER: *TRAINING AND TECHNOLOGY PROJECT PHASE I

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.80

DESCRIPTIVE NOTE: 34P.

ISSUE: RIEMAR70

ABSTRACT: 4 THE PURPOSE OF THIS STUDY IS TO ESTIMATE COSTS AND BENEFITS AND TO COMPUTE ALTERNATIVE BENEFIT-COST RATIOS FOR BOTH THE INDIVIDUALS AND THE FEDERAL GOVERNMENT AS A RESULT OF INVESTING TIME AND RESOURCES IN THE TRAINING AND TECHNOLOGY (TAT) PROJECT. TAT IS A CONTINUING EXPERIMENTAL PROGRAM IN TRAINING SKILLED WORKERS FOR PRIVATE INDUSTRY. THE FIVE OCCUPATIONAL AREAS INCLUDED IN THE STUDY ARE MECHANICAL DRAFTING, WELDING, MACHINING, INDUSTRIAL ELECTRONICS, AND PHYSICAL TESTING-QUALITY CONTROL. DATA WERE OBTAINED BY ANALYZING TWO SAMPLES OF 70 PERSONS EACH; ONE SAMPLE SELECTED FROM 407 TAT TRAINEES, THE OTHER SAMPLE FROM 1,500 QUALIFIED APPLICANTS NOT ADMITTED BECAUSE OF LIMITED SPACE. THE METHODOLOGY, THE COST OF TRAINING TO THE FEDERAL GOVERNMENT, THE EXPECTED VALUE OF INCOME DIFFERENCES BETWEEN THE TRAINED AND CONTROL GROUPS BY YEAR, THE EXPECTED VALUE OF TAX DIFFERENCES ACCRUING TO THE FEDERAL GOVERNMENT BY YEAR, AND THE COMPUTATION OF THE NUMBER OF DEDUCTIONS PER PAY CHECK ARE APPENDED. (CH)

INSTITUTION NAME: ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.

SPONSORING AGENCY NAME: DDEPARTMENT OF LABOR, WASHINGTON, D.C.; OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBER: ED033270

CLEARINGHOUSE ACCESSION NUMBER: AC005040

PUBLICATION DATE: 67

TITLE: + TRENDS IN THE EDUCATION AND TRAINING OF PROFESSIONAL MECHANICAL ENGINEERS.

DESCRIPTOR: CHEMICAL INDUSTRY; COLLEGE CURRICULUM; EDUCATIONAL NEEDS; *ENGINEERS; GOVERNING BOARDS; GRADUATE STUDY; *INDUSTRIAL TRAINING; MANUFACTURING INDUSTRY; ORGANIZATION SIZE (GROUPS); *PROFESSIONAL TRAINING; REFRESHER COURSES; RELEASED TIME; SHORT COURSES; TECHNICAL INSTITUTES; *UNIVERSITIES

IDENTIFIER: *GREAT BRITAIN

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: : 112P.; PROCEEDINGS OF A SYMPOSIUM ARRANGED BY THE EDUCATION AND TRAINING GROUP, APRIL 18-20, 1967 VOLUME 181. PART 3M.

ISSUE: RIEMAR70

ABSTRACT: TWELVE PAPERS DISCUSSING PROBLEMS ENCOUNTERED AND SOLUTIONS TO THEM WERE PRESENTED AT A SYMPOSIUM WHICH BROUGHT TOGETHER PERSONS CONCERNED WITH THE TRAINING OF PROFESSIONAL MECHANICAL ENGINEERS. AT SESSION I, PAPERS COVERED THE NEED FOR BROADLY-BASED TRAINING AND ENGINEERING PRACTICE, TRAINING REQUIREMENTS FOR ENGINEERS IN THE PROCESS INDUSTRIES, AND THE SOCIAL POWER AND RESPONSIBILITY OF THE ENGINEER. AT SESSION II, THEY DISCUSSED TRAINING IN ENGINEERING PRACTICE IN A FIRM OF MEDIUM SIZE (3500), TRAINING AT IMPERIAL METAL INDUSTRIES, LTD., AND VIEWS ON TRAINING HELD BY THE ENGINEERING INDUSTRY TRAINING BOARD. AT SESSION III, DESCRIPTIONS WERE GIVEN OF VARIOUS SPECIALIZED UNIVERSITY COURSES FOR MECHANICAL ENGINEERS, COURSES OF AN ENGINEERING SCIENCE TYPE, AND SANDWICH COURSES. AT SESSION IV, DISCUSSION CENTERED ON ONE-YEAR POST-GRADUATE COURSES IN UNIVERSITIES, THE IMPORTANCE OF MANAGEMENT IN ENGINEERING AND THE NEED FOR FORMALIZED EDUCATION AND TRAINING, AND "JOB-CENTERED" SHORT COURSES AT MIDCAREER, SUCH AS THOSE PROVIDED AT SHEFFIELD UNIVERSITY. (ALSO INCLUDED ARE REPORTS OF DISCUSSION AND COMMUNICATIONS, AUTHOR'S REPLIES, AND INDEXES.) (EB)

AVAILABILITY: INSTITUTION OF MECHANICAL ENGINEERS, 1 BIRDCAGE WALK, WESTMINSTER, LONDON S.W., 1, ENGLAND (L 9)

INSTITUTION NAME: INSTITUTION OF MECHANICAL ENGINEERS, LONDON (ENGLAND).

ACCESSION NUMBER: EC032469

CLEARINGHOUSE ACCESSION NUMBER: AC005108

PUBLICATION DATE: SEP 68

TITLE: = ESTIMATION OF MANAGERIAL AND TECHNICAL PERSONNEL REQUIREMENTS IN SELECTED INDUSTRIES. TRAINING FOR INDUSTRY SERIES, NO. 2.

DESCRIPTOR: *ADMINISTRATIVE PERSONNEL; CEMENT INDUSTRY; CHEMICAL INDUSTRY; CLERICAL WORKERS; COMPARATIVE ANALYSIS; DEVELOPED NATIONS; *DEVELOPING NATIONS; FERTILIZERS; *INDUSTRY; INVESTIGATIONS; *MANPOWER NEEDS; MANPOWER UTILIZATION; MANUFACTURING INDUSTRY; METAL INDUSTRY; STATISTICAL DATA; *SUBPROFESSIONALS; SUPERVISORS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 250P.

ISSUE: RIEFEB70

ABSTRACT: I THE NEED TO DEVELOP MANAGERIAL AND TECHNICAL PERSONNEL IN THE CEMENT, FERTILIZER, PULP AND PAPER, SUGAR, LEATHER AND SHOE, GLASS, AND METAL PROCESSING INDUSTRIES OF VARIOUS NATIONS WAS STUDIED, WITH EMPHASIS ON NECESSARY STEPS IN DEVELOPING NATIONS TO RELATE OCCUPATIONAL REQUIREMENTS TO TECHNOLOGY, PROCESSES, AND SCALE OF OUTPUT. ESTIMATES WERE BASED ON COMPARABLE INDUSTRIES IN THE MORE INDUSTRIALIZED NATIONS. THESE WERE AMONG TENTATIVE CONCLUSIONS: (1) THE EXPERIENCES OF MORE HIGHLY DEVELOPED ECONOMIES PROVIDE A REASONABLY RELIABLE BASIS FOR ESTIMATING SKILLED PERSONNEL REQUIREMENTS IN CERTAIN INDUSTRIES; (2) CURRENTLY POPULAR METHODS OF ESTIMATING REQUIREMENTS MAY BE TOO GENERALIZED TO SHED MUCH LIGHT ON VARIATIONS IN MANPOWER UTILIZATION; (3) THE PREVAILING PREOCCUPATION WITH QUANTITIES OF SKILLS NEEDED FOR INDUSTRIALIZATION SEEMS TO HAVE OBSCURED THE PROBLEM OF ACCURATELY IDENTIFYING OTHER VARIABLES THAT DETERMINE THE TYPES OF SKILLS NEEDED; (4) MANPOWER PLANNING PERSPECTIVES SHOULD BE BROADENED, BEGINNING WITH SYSTEMATIC COLLECTION OF SOCIOLOGICAL DATA ON PREVAILING MODES OF BEHAVIOR IN NONINDUSTRIAL SOCIETIES. (INCLUDED ARE REFERENCES, TABLES AND FIGURES, AND A PROPOSED APPRENTICESHIP PLAN.) (LY)

AVAILABILITY: UNITED NATIONS PUBLICATIONS, SALES SECTION, ROOM 1059, NEW YORK, N.Y. 10017 ($2.50 US)

INSTITUTION NAME: UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION, VIENNA (AUSTRIA).

ACCESSION NUMBER: EC031591

CLEARINGHOUSE ACCESSION NUMBER: VT009054

PUBLICATION DATE: 69

TITLE: INDIVIDUAL PROJECT OR MASS PRODUCTION, AN EXPERIMENTAL COMPARISON IN INDUSTRIAL ARTS.

PERSONAL AUTHOR: ILOT, JOHN FREDERICK DAVID

DESCRIPTOR: ACADEMIC ACHIEVEMENT; ACHIEVEMENT TESTS; ATTITUDE TESTS; COMPARATIVE ANALYSIS; DOCTORAL THESES; EXPERIMENTAL TEACHING; GRADE 8; GROUPING (INSTRUCTIONAL PURPOSES); INDIVIDUAL INSTRUCTION; *INDUSTRIAL ARTS; INSTRUCTIONAL DESIGN; INSTRUCTIONAL MATERIALS; MASS PRODUCTION; *METHODS RESEARCH; POST TESTING; PRETESTING; PROJECT TRAINING METHODS; QUESTIONNAIRES; STUDENT ATTITUDES; *TEACHING METHODS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 370P.

ISSUE: RIEDEC69

ABSTRACT: Y TWO LABORATORY INSTRUCTIONAL APPROACHES, INDIVIDUAL PROJECT AND MASS PRODUCTION METHODS, WERE COMPARED TO DETERMINE THEIR RELATIVE EFFECTIVENESS IN DEVELOPING STUDENT UNDERSTANDING OF INDUSTRY IN INDUSTRIAL ARTS. IT WAS HYPOTHESIZED THAT KNOWLEDGE OF TOOLS, OPERATIONS, INDUSTRIAL ORGANIZATION, AND MATERIALS OF INDUSTRY COULD BE TAUGHT AS EFFECTIVELY IN TERMS OF STUDENT BEHAVIORAL CHANGE BY THE MASS PRODUCTION INSTRUCTIONAL APPROACH AS BY THE INDIVIDUAL PROJECT INSTRUCTIONAL APPROACH. THE EXPERIMENT INVOLVED FOUR TEACHERS AND EIGHT CLASSES OF GRADE 8 METALWORK STUDENTS FOR 15 SCHOOL DAYS, EACH DAY HAVING A 50-MINUTE PERIOD OF INSTRUCTION FOR INDUSTRIAL ARTS. THE IOWA TESTS OF BASIC SKILLS WERE USED TO DIVIDE STUDENTS INTO HIGH, MIDDLE AND LOW ACHIEVEMENT GROUPS. PRETEST SCORES ON EACH CRITERION MEASURE WERE USED AS THE COVARIANCE ON TWO FACTOR ANALYSES OF COVARIANCE PERFORMED WITH PROJECT DATA. WITHIN EACH INSTRUCTIONAL APPROACH SOME PECULIARITY IN THE PATTERN OF SCORES AND THE CRITERION MEASURES WERE OBSERVED; HOWEVER, NO SIGNIFICANT DIFFERENCES WERE FOUND BETWEEN THE TWO INSTRUCTIONAL APPROACHES. THIS PH.D. DISSERTATION WAS SUBMITTED TO THE UNIVERSITY OF MISSOURI. (CH)

AVAILABILITY: & UNIVERSITY MICROFILMS, INC., 300 NORTH ZEEB ROAD, ANN ARBOR, MICHIGAN 48106.

ACCESSION NUMBER: ED031556

CLEARINGHOUSE ACCESSION NUMBER: VT007857

PUBLICATION DATE: AUG 68

TITLE: LAMINATING AND BENDING; A BASE SYLLABUS ON WOOD TECHNOLOGY.

DESCRIPTOR: CURRICULUM DEVELOPMENT; *CURRICULUM GUIDES; *INDUSTRIAL ARTS; INSTRUCTIONAL IMPROVEMENT; LUMBER INDUSTRY; MANUFACTURING; *RESOURCE MATERIALS; SUMMER INSTITUTES; TEACHER DEVELOPED MATERIALS; TEACHER EDUCATION; *WOODWORKING

IDENTIFIER: *NATIONAL DEFENSE EDUCATION ACT TITLE XI INSTITUTE; NDEA TITLE XI INSTITUTE

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.25

DESCRIPTIVE NOTE: 63P.; FROM NDEA INST. ON WOOD TECHNOLOGY (EASTERN KENTUCKY UNIV., JUNE 10-AUG. 2, 1968).

ISSUE: RIEDEC69

ABSTRACT: PREPARED BY PARTICIPANTS IN THE 1968 NATIONAL DEFENSE EDUCATION ACT INSTITUTE ON WOOD TECHNOLOGY, THIS SYLLABUS IS ONE OF A SERIES OF BASIC OUTLINES DESIGNED TO AID COLLEGE LEVEL INDUSTRIAL ARTS WOODWORKING INSTRUCTORS IN IMPROVING AND BROADENING THE SCOPE AND CONTENT OF THEIR PROGRAMS. THE MANUAL CONSISTS OF A BRIEF INTRODUCTION FOLLOWED BY SEVEN MAJOR UNIT TOPICS, INCLUDING: (1) LAMINATED TIMBERS, (2) KERF BINDING, (3) BENDING OF PLYWOOD, (4) BENDING STEAMED OR BOILED WOOD, (5) LAMINATION BENDING, (6) BAG MOULDING OF PLYWOOD, AND (7) ANHYDROUS AMMONIA BENDING. MOST UNITS CONTAIN DESCRIPTIVE AND EXPLANATORY INFORMATION OBJECTIVES, CONTENT OUTLINES, DRAWINGS AND DIAGRAMS, SUGGESTED PROCEDURES, AND USES OF THE MATERIALS PRODUCED. SUPPLEMENTARY MATERIALS INCLUDE A LIST OF FILMS AND FILMSTRIPS, A GLOSSARY, A BIBLIOGRAPHY, AND REFERENCE AND INSTRUCTIONAL AIDS. RELATED DOCUMENTS ARE AVAILABLE AS VT 007 858, VT 007 859 AND VT 007 861. (AW)

INSTITUTION NAME: EASTERN KENTUCKY UNIV., RICHMOND.

ACCESSION NUMBER: ED031554

CLEARINGHOUSE ACCESSION NUMBER: VT007844

PUBLICATION DATE: AUG 68

TITLE: UNITS FOR THE LABORATORY OF INDUSTRIES.

DESCRIPTOR: CURRICULUM DEVELOPMENT; EDUCATIONAL FACILITIES; *INDUSTRIAL ARTS; INDUSTRIAL STRUCTURE; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; *LESSON PLANS; *MANUFACTURING INDUSTRY; RECORDS (FORMS); RESOURCE MATERIALS; *SECONDARY GRADES; SUMMER INSTITUTES; TESTS; TRANSPARENCIES; *UNITS OF STUDY (SUBJECT FIELDS)

IDENTIFIER: | *NATIONAL DEFENSE EDUCATION ACT TITLE XI INSTITUTE; NDEA TITLE XI INSTITUTE

EDRS PRICE: EDRS PRICE MF-$2.00 HC-$24.40

DESCRIPTIVE NOTE: $ 486P.; MATERIALS DEVELOPED AT AN NDEA INSTITUTE (GORHAM, MAINE, JULY 1-AUGUST 9, 1968).

ISSUE: RIEDEC69

ABSTRACT: THIS INSTITUTE FOCUSED ON MANUFACTURING INDUSTRIES FOR JUNIOR HIGH INDUSTRIAL ARTS. IT WAS ATTENDED BY 20 TEACHERS FROM 14 STATES WHO WORKED IN FOUR GROUPS TO DEVELOP PAIRS OF INSTRUCTIONAL UNITS TITLED "INTRODUCTION TO TECHNOLOGY AND INDUSTRIAL ARTS." EACH OF THESE UNITS COVERS PERSONNEL MANAGEMENT, ENGINEERING, PRODUCTION, FINANCE, AND MARKETING AND WAS TO BE SUITABLE FOR A "LABORATORY OF INDUSTRIES" APPROACH. INCLUDED WERE PURPOSES, PUPIL ACTIVITIES, SUGGESTED CONTENT, AND AN EVALUATION UNIT. THESE UNITS WERE TESTED ON 60 BOYS AND GIRLS AND VIDEO TAPES WERE MADE AND EVALUATED BY THE PARTICIPANTS. (EM)

INSTITUTION NAME: GORHAM STATE COLL., MAINE.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBER: ED030734

CLEARINGHOUSE ACCESSION NUMBER: VT008714

PUBLICATION DATE: JUN 68

TITLE: AN INVESTIGATION OF THE RELIABILITY AND VALIDITY OF SELECTED OCCUPATIONAL COMPETENCY EXAMINATIONS AND THEIR USE IN EVALUATING PROSPECTIVE TRADE AND INDUSTRIAL TEACHERS. FINAL REPORT.

PERSONAL AUTHOR: KOENIGSBERG, LEWIS A.; REILLY, ROBERT R.

DESCRIPTOR: AUTO MECHANICS (OCCUPATION); CERTIFICATION; COSMETOLOGY; ITEM ANALYSIS; MACHINISTS; OCCUPATIONAL TESTS; *PERFORMANCE TESTS; *TEACHER QUALIFICATIONS; TEST CONSTRUCTION; *TEST RELIABILITY; *TEST VALIDITY; *TRADE AND INDUSTRIAL TEACHERS

IDENTIFIER: NEW YORK STATE EDUCATION DEPARTMENT

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.35

DESCRIPTIVE NOTE: 45P.

ISSUE: RIENOV69

ABSTRACT: A 2-YEAR INVESTIGATION WAS INITIATED TO DETERMINE THE RELIABILITY AND VALIDITY OF THE NEW YORK STATE COMPETENCY TESTS USED IN SELECTING CANDIDATES FOR TEACHER PREPARATION IN THE TRADE AND INDUSTRIAL PROGRAMS. THE THREE MOST WIDELY USED TESTS--AUTO MECHANICS, COSMETOLOGY, AND MACHINE SHOP--WERE SELECTED FOR INVESTIGATION AND FURTHER REVISION. SEVERAL STATISTICAL APPROACHES WERE EMPLOYED TO TEST RELIABILITY OF THE WRITTEN TESTS. SOME FINDINGS WERE: (1) THE MEAN DIFFICULTY OF ITEMS WAS WITHIN THE RANGE CONSIDERED ACCEPTABLE, (2) THE MEAN POINT BISERIAL WAS LOWER FOR ALL TESTS THAN GENERALLY RECOMMENDED, (3) THE VARIABILITY OF DIFFICULTY LEVELS WAS EXTREMELY HIGH. ON PERFORMANCE TESTS, COMPARISON BETWEEN JUDGES RATING APPLICANTS ON PERFORMANCE SHOWED A HIGH RELATIONSHIP AND INTERCORRELATIONS AMONG SUB-SCORES WERE HIGH. QUALIFIED INDIVIDUALS WERE USED TO DETERMINE WHETHER ITEMS REFLECT THE IMPORTANT ASPECTS OF KNOWLEDGE OR SKILL THE TESTS WERE DESIGNED TO MEASURE, AND THE RELATIONSHIP BETWEEN EXAMINATION SCORES AND ACTUAL EXPERIENCE IN THE OCCUPATION WAS EXAMINED. RECOMMENDATIONS INCLUDED: (1) POOLING TEST DATA FROM ALL PARTS OF THE STATE, AND (2) A PLAN FOR SYSTEMATIC REVIEW AND UPDATING. (JK)

REPORT NUMBER: BOR-8

INSTITUTION NAME: NEW YORK STATE EDUCATION DEPT., ALBANY. BUREAU OF OCCUPATIONAL EDUCATION RESEARCH; STATE UNIV. OF NEW YORK, OSWEGO. DIV. OF VOCATIONAL TECHNICAL EDUCATION.

ACCESSION NUMBER: ED030263

CLEARINGHOUSE ACCESSION NUMBER: EF003036

PUBLICATION DATE: OCT 66

TITLE: COMPREHENSIVE BUILDING SYSTEMS: THREAT OR PROMISE?

DESCRIPTOR: ARCHITECTS; ARCHITECTURAL PROGRAMING; *BUILDING DESIGN; *COMPONENT BUILDING SYSTEMS; CONSTRUCTION INDUSTRY; *ENGINEERING TECHNOLOGY; *INDUSTRIALIZATION; INDUSTRY; MANUFACTURING INDUSTRY; MECHANICAL EQUIPMENT; MODULAR BUILDING DESIGN; PERFORMANCE CRITERIA; PERFORMANCE FACTORS; RESEARCH; *STRUCTURAL BUILDING SYSTEMS; SYSTEMS ANALYSIS; SYSTEMS APPROACH

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

ISSUE: RIENOV69

ABSTRACT: V COMPREHENSIVE BUILDING SYSTEMS ARE THE RESULT OF INDUSTRY'S SEARCH FOR MARKETS, CLIENTS' DESIRE FOR SHORTER HOURS AND LOWER COSTS, AND THE GROWING COMPLEXITY OF BUILDING TECHNOLOGY WHICH REQUIRES THE ARCHITECT TO DEPEND ON INDUSTRY FOR RESEARCH AND DEVELOPMENT. CERTAIN QUESTIONS ARE RAISED BY THIS TREND. WILL INDUSTRY DOMINATE ARCHITECTURE? CAN THE ARCHITECT RESPOND TO THIS CHALLENGE? CAN A WORKABLE RELATIONSHIP BETWEEN ARCHITECTURE AND INDUSTRY BE DEVELOPED? PROBLEMS, TECHNIQUES, AND THE IMPACT ON THE BUILDING INDUSTRY WERE DISCUSSED BY LEADING PARTICIPANTS IN THIS NEW FIELD AT THE 1966 BUILDING RESEARCH INSTITUTE CONFERENCE ON COMPREHENSIVE BUILDING SYSTEMS. (RH)

AVAILABILITY: _ BUILDING RESEARCH, JOURNAL OF BUILDING RESEARCH INSTITUTE, 1725 DE SALES ST. N.W., WASHINGTON, D.C. 20036

JOURNAL CITATION: BUILDING RESEARCH; V3 N5 P7-41 SEP-OCT 66

ACCESSION NUMBER: ED029194

CLEARINGHOUSE ACCESSION NUMBER: AC003846

PUBLICATION DATE: 68

TITLE: SUPERVISORY SELECTION AND TRAINING IN MANUFACTURING INDUSTRY.

PERSONAL AUTHOR: JENKINS, DAVID

DESCRIPTOR: BEHAVIOR CHANGE; CHANGING ATTITUDES; *CONVENTIONAL INSTRUCTION; EDUCATIONAL NEEDS; INTERPERSONAL COMPETENCE; JOB ANALYSIS; KNOWLEDGE LEVEL; *MANUFACTURING INDUSTRY; *PERSONNEL SELECTION; *SUPERVISORY TRAINING; TRANSFER OF TRAINING; WORK EXPERIENCE

IDENTIFIER: *GREAT BRITAIN

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 73P.

ISSUE: RIEOCT69

ABSTRACT: A STUDY OF THE SELECTION OF SUPERVISORS AND OF THEIR FORMAL TRAINING IN GREAT BRITAIN SHOWS THAT LACK OF RELIABLE METHODS TO MEASURE JOB PERFORMANCE CAUSES DIFFICULTY IN DEVELOPING TRAINING PROGRAMS. QUALITIES OF THE SUCCESSFUL SUPERVISOR MUST BE IDENTIFIED; THIS INVOLVES MEASURING KNOWLEDGE IN AREAS OF TECHNOLOGY, WAGE AND PRODUCTION SYSTEMS, AS WELL AS SKILLS IN OPERATIONS, CLERICAL AND ADMINISTRATIVE AREAS, PROBLEM SOLVING, AND SOCIAL COMPETENCIES. WHILE ESTABLISHED SUPERVISORS MAY BE OBSERVED, DEFICIENCIES DETERMINED, AND APPROPRIATE TRAINING IMPARTED, THE POTENTIAL SUPERVISOR MUST HAVE SPECIAL TRAINING FOR DEVELOPMENT OF NECESSARY JOB SKILLS. LIMITATIONS OF FORMAL TRAINING INCLUDE LACK OF RELATIONSHIP BETWEEN COURSE OBJECTIVES AND TRAINING NEEDS, GREATER EMPHASIS ON CLASSROOM PERFORMANCE THAN ON THE JOB, AND DIFFICULTIES IN TRANSFER OF GENERAL KNOWLEDGE TO SPECIFIC SITUATIONS. TRAINING IS MOST SUCCESSFUL WHEN IT IMPARTS KNOWLEDGE OR SKILLS, INFLUENCES ATTITUDES, OR AFFECTS BEHAVIOR. EXTERNAL COURSES ENABLE GROUPING OF SUPERVISORS ON THE BASIS OF INDUSTRY, PRODUCTION SYSTEMS, AND PRODUCT, WHILE INTERNAL COURSES ARE USEFUL IN IMPARTING KNOWLEDGE OF THE FIRM AND ITS POLICIES, AND PROVIDING REALISTIC APPRAISAL OF DISCREPANCIES BETWEEN POLICY AND PRACTICE. (PT)

AVAILABILITY: STAPLES PRESS LTD. 3 UPPER JAMES STREET, GOLDEN SQUARE, LONDON W.1. ENGLAND (16S)

ACCESSION NUMBER: ED028392

CLEARINGHOUSE ACCESSION NUMBER: AC004251

PUBLICATION DATE: 67

TITLE: MIGRATION OF RURAL YOUNG ADULTS IN NEBRASKA.

PERSONAL AUTHOR: ORR, JOHN DAVID

DESCRIPTOR: ACADEMIC ACHIEVEMENT; AGRICULTURE; COLLEGE ATTENDANCE; DATA ANALYSIS; DOCTORAL THESES; ECONOMIC FACTORS; EDUCATIONAL ENVIRONMENT; EMPLOYMENT OPPORTUNITIES; GEOGRAPHIC LOCATION; *HIGH SCHOOL GRADUATES; MANUFACTURING INDUSTRY; *MIGRATION PATTERNS; PSYCHOLOGICAL CHARACTERISTICS; *RURAL AREAS; SURVEYS; *YOUNG ADULTS

IDENTIFIER: NEBRASKA

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 243P.; ED. D. THESIS.

ISSUE: RIESEP69

ABSTRACT: V THIS STUDY TRIED TO DETERMINE THE INTERNAL AND EXTERNAL MIGRATION PATTERNS AS ESTABLISHED BY HIGH SCHOOL GRADUATES OF 1960, IN RURAL NEBRASKA, AND THE ASSOCIATION OF EDUCATIONAL, PSYCHOLOGICAL, GEOGRAPHIC, AND ECONOMIC FACTORS WITH THEIR MIGRATION AND EDUCATIONAL PLANS. DATA FOR THE STUDY OF THE 4700 GRADUATES WERE PROVIDED BY ALMOST 300 SUPERINTENDENTS. THE STUDY REVEALED THAT EVEN THOUGH NEBRASKA YOUTH MIGRATE TO OTHER STATES AT THE AGE WHEN THEY ARE MOST PRODUCTIVE, 44% OF THOSE STUDIED WERE LIVING IN THEIR HOME COUNTY IN 1965. ALSO, RURAL GRADUATES WITH HIGHER SCHOLASTIC ACHIEVEMENT HAVE A GREATER TENDENCY TO GO TO COLLEGE AND TO MIGRATE FROM THEIR LOCALE. RURALNESS, DENSITY OF POPULATION, AND DEPENDENCY UPON AGRICULTURE, MOREOVER, WERE SEEN TO BE ASSOCIATED WITH ACCELERATED COLLEGE EDUCATION AND MIGRATION FROM THE COUNTY. CLOSE PROXIMITY OF WORK OPPORTUNITY IN MANUFACTURING HAD AN INHIBITING EFFECT UPON THE TENDENCY TO MIGRATE. SIMILARLY, IN AGRICULTURAL WORK OPPORTUNITIES, WHERE MORE CATTLE WERE ON FEED PER SQUARE MILE, GRADUATES MIGRATED LESS. THE PERCENTAGE OF MIGRATION WAS GREATER WHERE THE SOIL IN THE AREA WAS UNABLE TO SUPPORT INTENSIFIED AGRICULTURE. (SE)

AVAILABILITY: UNIVERSITY MICROFILMS, 300 N. ZEEB RD., ANN ARBOR, MICHIGAN, 48106 (ORDER NO. 68-3798, MF $3.15, XEROGRAPHY $11.05).

INSTITUTION NAME: NEBRASKA UNIV., LINCOLN. TEACHERS COLL.

ACCESSION NUMBER: ED028266

CLEARINGHOUSE ACCESSION NUMBER: VT007850

PUBLICATION DATE: 68

TITLE: GUIDES IN CONSTRUCTION AND MANUFACTURING FOR ELEMENTARY SCHOOL INDUSTRIAL ARTS. K-2; 3-4; 5-6.

DESCRIPTOR: A *CONSTRUCTION (PROCESS); *CURRICULUM GUIDES; *ELEMENTARY GRADES; *INDUSTRIAL ARTS; KINDERGARTEN; LESSON PLANS; *MANUFACTURING

IDENTIFIER: | *NATIONAL DEFENSE EDUCATION ACT TITLE XI INSTITUTE; NDEA TITLE XI INSTITUTE

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$12.80

DESCRIPTIVE NOTE: 254P.; MATERIALS DEVELOPED AT NDEA INST. FOR ADVANCED STUDY IN ELEMENTARY INDUSTRIAL ARTS (COLUMBUS, SUMMER 1968)

ISSUE: RIEAUG69

ABSTRACT: THIS SERIES OF THREE GUIDES WAS DEVELOPED BY 25 PARTICIPANTS IN THE INSTITUTE. ONE HUNDRED AND EIGHT INDUSTRIAL ARTS LESSON PLANS FOR GRADES K-6 ARE INCLUDED IN THESE GUIDES FOR CONSTRUCTION AND FOR MANUFACTURING INTENDED TO REFLECT THE CONTEMPORARY INDUSTRIAL AND TECHNOLOGICAL SOCIETY IN WHICH YOUNG CHILDREN LIVE. SOME TYPICAL CONSTRUCTION LESSONS ARE: (1) MAN AND TECHNOLOGY, (2) SELECTING A SITE, (3) LISTING MATERIALS, (4) CLEARING THE SITE AND GETTING READY TO BUILD, (5) ERECTING STEEL FRAMES, (6) MEDIATION, ARBITRATION, AND STRIKING, AND (7) MAINTAINING PROPERTY. SOME TYPICAL MANUFACTURING LESSONS ARE (1) MANUFACTURING AND THE ECONOMIC SYSTEM, (2) IDENTIFYING CONSUMER DEMAND, (3) DESIGNING POWER ELEMENTS, (4) OPERATING QUALITY CONTROL SYSTEMS, (5) ESTABLISHING ACCIDENT PREVENTION PROGRAMS, (6) HOT AND COLD WORKING PROCESSES, AND (7) SERVICING MANUFACTURED PRODUCTS. EACH LESSON INCLUDES OBJECTIVES, ACTIVITIES, TEACHING PROCEDURE, RELATIONSHIPS TO OTHER SUBJECTS, MATERIALS REQUIRED, AND A BIBLIOGRAPHY. (EM)

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS.

ACCESSION NUMBER: EC028254

CLEARINGHOUSE ACCESSION NUMBER: VT007418

PUBLICATION DATE: 68

TITLE: INDUSTRY PROFILES 1958-1966.

DESCRIPTOR: CLASSIFICATION; *COMPARATIVE STATISTICS; ECONOMIC PROGRESS; EMPLOYMENT LEVEL; *GROWTH PATTERNS; *MANUFACTURING INDUSTRY; *NATIONAL SURVEYS; PRODUCTIVITY; *TABLES (DATA)

EDRS PRICE: EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 188P.

ISSUE: RIEAUG69

ABSTRACT: A STATISTICAL PICTURE IS PROVIDED OF ECONOMIC DEVELOPMENTS IN EACH OF 417 MANUFACTURING INDUSTRIES DURING THE YEARS 1958-66. THE DOCUMENT CONSISTS OF: (1) AN INTRODUCTION WHICH DESCRIBES THE SOURCE AND ORGANIZATION OF THE DATA AND EXPLAINS THE TERMINOLOGY USED, (2) INDUSTRY DESCRIPTIONS WHICH DEFINE EACH OF THE INDUSTRIES INCLUDED, (3) INDUSTRY PROFILES AND SUPPLEMENTARY DATA FOR 1963 (TABLES 1 AND 2), AND (4) STANDARD INDUSTRIAL CLASSIFICATION RANKINGS OF FOUR-DIGIT INDUSTRIES BY SIZE AND GROWTH (TABLES 3-6). THIS COMPILATION IS DESIGNED TO PROVIDE USERS OF INDUSTRIAL DATA WITH A CONVENIENT SINGLE COURSE OF COMPARABLE BASIC INDUSTRY STATISTICS. ALL DATA SHOWN ARE BASED ON PUBLISHED BUREAU OF THE CENSUS MATERIALS. (CH)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C., 20402 (C41.2:IN2/25/958/66, $1.00)

INSTITUTION NAME: BUSINESS AND DEFENSE SERVICES ADMINISTRATION (DOC), WASHINGTON, D.C.

ACCESSION NUMBER: EC027396

CLEARINGHOUSE ACCESSION NUMBER: VT007631

PUBLICATION DATE: AUG 68

TITLE: " JOB VACANCIES IN IOWA MANUFACTURING ESTABLISHMENTS AS REPORTED FOR THE PERIOD MARCH THROUGH AUGUST 1968. VOLUME III, NO. 1.

PERSONAL AUTHOR: JAKUBAUSKAS, EDWARD B.; PALOMBA, NEIL A.

DESCRIPTOR: C AREA VOCATIONAL SCHOOLS; COOPERATIVE PLANNING; CURRICULUM DEVELOPMENT; *EDUCATIONAL NEEDS; EMPLOYMENT OPPORTUNITIES; *MANUFACTURING INDUSTRY; *OCCUPATIONAL SURVEYS; OCCUPATIONS; *POST SECONDARY EDUCATION; WAGES

IDENTIFIER: IOWA

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.25

DESCRIPTIVE NOTE: 63P.

ISSUE: RIEJUL69

ABSTRACT: JOB VACANCIES WERE REPORTED TO AID IOWA AREA VOCATIONAL SCHOOLS IN DEVELOPING CURRICULUMS AND TRAINING PROGRAM BY DETERMINING: (1) OCCUPATIONS TO BE CONSIDERED FOR TRAINING PURPOSES IN AREA VOCATIONAL SCHOOLS, (2) DEMAND FOR WORKERS IN OCCUPATIONS UNDER CONSIDERATION BY AREA SCHOOLS, (3) OVERSUPPLY IN CERTAIN SKILLS, AND (4) AN ON-GOING PROCEDURE FOR IMMEDIATE FEEDBACK OF INDUSTRY'S MOST CRITICAL MANPOWER SHORTAGES TO EDUCATORS. RESPONSE OF 980 OF 3,000 FIRMS PROVIDED DATA WHICH WAS ANALYZED BY OCCUPATIONAL GROUP, INDUSTRY CLASSIFICATION, AND COUNTY AND MULTI-COUNTY AREAS. A TOTAL OF 11,388 FULL-TIME VACANCIES WERE UNCOVERED. LARGEST VACANCIES WERE IN THE BENCHWORK OCCUPATIONS, PROCESSING OCCUPATIONS, AND MACHINE TRADES OCCUPATIONS. RESULTS, USING AN INFLATION PROCEDURE, ARE PRESENTED IN THE APPENDIXES UNDER HEADINGS OF: (1) NUMBER OF JOB VACANCIES, BY MAJOR AND DETAILED OCCUPATIONS GROUPS, IOWA AND MULTI-COUNTY SUBAREAS, (2) NUMBER OF JOB VACANCIES, BY INDUSTRY AND MAJOR OCCUPATIONAL GROUP, IOWA, (3) NUMBER OF JOB VACANCIES AND AVERAGE HOURLY WAGE RATES OFFERED, BY DETAILED OCCUPATIONAL GROUP, 99 COUNTIES AND (4) INFLATED JOB VACANCIES BY MAJOR AND DETAILED OCCUPATIONAL GROUPS AND BY INDUSTRY GROUP. SIMILAR LISTINGS FOR EARLIER TIME PERIODS ARE AVAILABLE AS VT 003 596 AND VT 005 639-40. (CM)

INSTITUTION NAME: IOWA STATE UNIV. OF SCIENCE AND TECHNOLOGY, AMES. INDUSTRIAL RELATIONS CENTER.

ACCESSION NUMBER: ED026491

CLEARINGHOUSE ACCESSION NUMBER: VT006678

PUBLICATION DATE: 68

TITLE: W EMPLOYMENT OPPORTUNITIES AND TRAINING NEEDS FOR TECHNICIANS IN THE METALWORKING MANUFACTURING INDUSTRIES OF THE CENTRAL OHIO VALLEY WITH PROJECTIONS THROUGH 1975.

PERSONAL AUTHOR: LEFFARD, WARREN LEE

DESCRIPTOR: DOCTORAL THESES; *EDUCATIONAL NEEDS; EDUCATIONAL OPPORTUNITIES; EDUCATIONAL PROGRAMS; EDUCATIONAL SUPPLY; *EMPLOYMENT OPPORTUNITIES; EMPLOYMENT QUALIFICATIONS; MANUFACTURING INDUSTRY; *METAL WORKING OCCUPATIONS; *OCCUPATIONAL SURVEYS; QUESTIONNAIRES; STUDENT ENROLLMENT; TECHNICAL EDUCATION; *TECHNICAL OCCUPATIONS

IDENTIFIER: CENTRAL OHIO VALLEY; CINCINNATI; KENTUCKY; LOUISVILLE; OHIO

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 195P.

ISSUE: RIEJUN69

ABSTRACT: THE PURPOSE OF THIS STUDY WAS TO ASCERTAIN THE STATUS OF TECHNICAL TRAINING AND THE DEMAND FOR TECHNICIANS IN THE LOUISVILLE, KENTUCKY AND CINCINNATI, OHIO METROPOLITAN AREAS. DATA FROM 99 RANDOMLY SELECTED ESTABLISHMENTS INDICATED THAT 36 ESTABLISHMENTS EMPLOYED OR INTENDED TO EMPLOY TECHNICIANS BY 1975. INFORMATION WAS ALSO COLLECTED FROM 109 EDUCATIONAL INSTITUTIONS WHICH OFFERED LESS-THAN-BACCALAUREATE DEGREE PROGRAMS FOR TECHNICIANS. SOME FINDINGS WERE: (1) THE PRINCIPAL METHODS OF TRAINING TECHNICIANS WERE THE UPGRADING OF CRAFTSMEN, ON-THE-JOB TRAINING, AND EDUCATIONAL PROGRAMS, (2) 1,743 TECHNICIANS WERE EMPLOYED UNDER 36 JOB TITLES, (3) IMMEDIATE OPENINGS EXISTED FOR 105 TECHNICIANS IN 22 JOB TITLES, (4) THE EXPRESSED DEMAND FOR 1975 WAS 1,671 TECHNICIANS AND THE PROJECTED DEMAND FOR THE AREA WAS 3,820 TECHNICIANS, (5) PROGRAMMERS AND DESIGNERS WERE INDICATED AS EXTREMELY DIFFICULT TO EMPLOY, (6) 35 FIRMS RECRUITED FROM WITHIN A 100 MILE RADIUS "LOCAL AREA," (7) EMPLOYERS PERCEIVED ONE SCHOOL IN EACH AREA CAPABLE OF FILLING THEIR NEEDS, (8) BY 1975, 42 EDUCATIONAL PROGRAMS WILL BE OFFERED UNDER 15 PROGRAM TITLES, AND (9) GRADUATES FROM THESE PROGRAMS SHOULD PROVIDE THE NECESSARY TECHNICIANS. THIS ED.D. THESES WAS SUBMITTED TO THE UNIVERSITY OF MISSOURI. (EM)

AVAILABILITY: & UNIVERSITY MICROFILMS, INC., 300 NORTH ZEEB ROAD, ANN ARBOR, MICHIGAN 48106.

ACCESSION NUMBER: ED026468

CLEARINGHOUSE ACCESSION NUMBER: VT004947

PUBLICATION DATE: 65

TITLE: VOCATIONAL TRAINING FOR INDUSTRY IN THE NORTHERN PLAINS.

DESCRIPTOR: ADULT VOCATIONAL EDUCATION; CONSTRUCTION INDUSTRY; EDUCATIONAL NEEDS; EDUCATIONAL PROGRAMS; *EDUCATIONAL RESOURCES; *EDUCATIONAL SUPPLY; EMPLOYMENT OPPORTUNITIES; EMPLOYMENT TRENDS; MANUFACTURING INDUSTRY; *POST SECONDARY EDUCATION; QUESTIONNAIRES; *SCHOOL SURVEYS; TRADE AND INDUSTRIAL EDUCATION; *VOCATIONAL EDUCATION

IDENTIFIER: NORTHERN PLAINS STATES

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.40

DESCRIPTIVE NOTE: 66P.

ISSUE: RIEJUN69

ABSTRACT: THIS STUDY OF THE NORTHERN PLAINS STATES (IOWA, MINNESOTA, NEBRASKA, NORTH DAKOTA, SOUTH DAKOTA, WISCONSIN) POST SECONDARY EDUCATIONAL FACILITIES FOR TRAINING CRAFTSMEN AND OPERATIVES FOR MANUFACTURING AND RELATED INDUSTRIES WAS CONDUCTED BY MEANS OF A QUESTIONNAIRE SURVEY. FOR EACH OCCUPATION IN WHICH TRAINING WAS OFFERED, SCHOOLS WERE REQUESTED TO GIVE DATA SUCH AS ENROLLMENT, COMPLETIONS, WAGE RATES, AND MIGRATION FOR THE YEARS 1959-1964. U.S. DEPARTMENT OF LABOR AND 1960 CENSUS DATA WERE USED TO ESTIMATE THE 1961 GROWTH AND REPLACEMENT DEMAND FOR EACH CRAFTSMAN AND OPERATIVE OCCUPATION AND THIS WAS COMPARED WITH AVERAGE ANNUAL TRAINING OUTPUT FOR 1960-1963 AS DETERMINED BY THE QUESTIONNAIRE. ANALYSIS SHOWED THAT IN THE EARLY 1960'S LESS THAN HALF THE DEMAND FOR THE OCCUPATIONS WAS MET BY REGIONAL VOCATIONAL EDUCATION RESOURCES. THE TRAINING IS CONCENTRATED IN A NARROW RANGE OF TRADITIONAL SKILLS AND IS ONLY PARTLY RESPONSIVE TO ACTUAL NEEDS. THE RATE AT WHICH NEW COURSES HAVE BEEN ADDED SINCE 1960 IS NEGLIGIBLE. THE PER CAPITA EXPENDITURE ON ALL VOCATIONAL EDUCATION IN THE NORTHERN PLAINS STATES IS SLIGHTLY ABOVE THE UNITED STATES AVERAGE WHILE EXPENDITURES PER STUDENT ENROLLED IN TRADE AND INDUSTRY TRAINING PROGRAMS IS 25 PERCENT BELOW THE NATIONAL AVERAGE. (HC)

INSTITUTION NAME: NORTHERN NATURAL GAS CO., OMAHA, NEBR. DEPT. OF AREA DEVELOPMENT.

ACCESSION NUMBER: EC025701

CLEARINGHOUSE ACCESSION NUMBER: AC003500

PUBLICATION DATE: 68

TITLE: * MANAGERIAL AND SUPERVISORY EDUCATIONAL NEEDS IN BUSINESS AND INDUSTRY IN PENNSYLVANIA .

DESCRIPTOR: *ADMINISTRATIVE PERSONNEL; BANKING; *BUSINESS; CONSTRUCTION INDUSTRY; *EDUCATIONAL NEEDS; *INDUSTRY; INSURANCE OCCUPATIONS; MANUFACTURING INDUSTRY; RESEARCH PROJECTS; TELEPHONE COMMUNICATIONS INDUSTRY; TRANSPORTATION

IDENTIFIER: *PENNSYLVANIA

EDRS PRICE: EDRS PRICE MF-$2.75 HC-$35.10

DESCRIPTIVE NOTE: 704P.

ISSUE: RIEJUN69

ABSTRACT: THIS DOCUMENT PRESENTS SELF-PERCEIVED NEEDS OF MANAGERS AND FIRST LINE SUPERVISORS IN THE FOLLOWING PENNSYLVANIA INDUSTRIES: CHEMICAL, RUBBER, AND PLASTIC PRODUCTS; BANKING; APPAREL, TEXTILE, AND LEATHER; CONSTRUCTION; DEPARTMENT STORES; ELECTRICAL MACHINERY; FABRICATED METAL PRODUCTS; INSURANCE; MACHINERY (EXCEPT ELECTRICAL); TRANSPORTATION EQUIPMENT; GAS AND ELECTRICAL UTILITIES; PETROLEUM REFINING; PRIMARY METALS; PROFESSIONAL, SCIENTIFIC, AND CONTROLLING INSTRUMENTS; RAILROADS; STONE, CLAY, AND GLASS PRODUCTS; TELEPHONE AND TELEGRAPH; AND TRANSPORTATION. RECOMMENDATIONS BASED ON THE INFORMATION OBTAINED THROUGH QUESTIONNAIRES ARE OFFERED TO THE UNIVERSITY, BUSINESS AND INDUSTRY, INDIVIDUAL MANAGERS AND SUPERVISORS, AND PROFESSIONAL ASSOCIATIONS. (NL)

REPORT NUMBER: M-63-M-81

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. CONTINUING EDUCATION.

ACCESSION NUMBER: ED025622

CLEARINGHOUSE ACCESSION NUMBER: VT006674

PUBLICATION DATE: 68

TITLE:) AN ANALYSIS OF METAL FINISHING TECHNOLOGY AND ITS STATUS IN INDUSTRIAL TEACHER-EDUCATION.

PERSONAL AUTHOR: SINGLETARY, THOMAS ALEXANDER

DESCRIPTOR: I BIBLIOGRAPHIES; DOCTORAL THESES; *FINISHING; *INDUSTRIAL ARTS; *INSTRUCTIONAL PROGRAMS; LITERATURE REVIEWS; MANUFACTURING; *NATIONAL SURVEYS; QUESTIONNAIRES; *TEACHER EDUCATION; TEACHING PROCEDURES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 159P.

ISSUE: RIEMAY69

ABSTRACT: THE PURPOSES OF THIS STUDY WERE TO ANALYZE AND DESCRIBE METAL FINISHING PROCESSES AND TO ASCERTAIN THE EXTENT TO WHICH THESE PROCESSES ARE TAUGHT IN INDUSTRIAL TEACHER EDUCATION PROGRAMS. HANDBOOKS AND INDUSTRIAL LITERATURE WERE REVIEWED, AND A SURVEY OF 165 TEACHER EDUCATION DEPARTMENTS WAS MADE TO COLLECT THE DATA. FINISHING PROCESSES WERE GROUPED AS METAL PLATING, ANODIC AND CHEMICAL COATING, FILM FINISHING, AND POLISHING, AND EACH ARE DISCUSSED IN A DESCRIPTIVE, ILLUSTRATED CHAPTER. INSTRUCTIONAL UNITS ON METAL FINISHING WERE TAUGHT IN 120 COLLEGES IN METAL, GENERAL METAL, OR MULTIPLE ACTIVITY COURSES; HOWEVER, NO COLLEGE OFFERED AN ENTIRE COURSE ON THIS SUBJECT. SOME FINDINGS FROM THE COLLEGE SURVEY WERE: (1) GENERAL METALS COURSES MOST OFTEN CONTAIN FINISHING UNITS, (2) 63 COLLEGES REQUIRED INDUSTRIAL ARTS TEACHERS TO COMPLETE COURSES INCLUDING METAL FINISHING TECHNIQUES, (3) ONLY TWO COLLEGES OFFER MORE THAN 10 SEMESTER HOURS OF COURSE WORK WHICH CONTAINS SUCH UNITS, (4) TECHNICAL MANUALS ARE THE MOST USED SOURCES OF INSTRUCTIONAL CONTENT ON FINISHING, AND (5) READINGS AND PROJECTS ARE THE MOST USED STUDENT ACTIVITIES WITH ORAL PRESENTATION AND DEMONSTRATIONS BEING THE MOST USED INSTRUCTIONAL APPROACHES. THIS THESIS WAS SUBMITTED TO THE UNIVERSITY OF MISSOURI. (EM)

AVAILABILITY: | UNIVERSITY MICROFILMS, INC., 300 NORTH ZEEB ROAD, ANN ARBOR, MICHIGAN 48106

ACCESSION NUMBER: ED024908

CLEARINGHOUSE ACCESSION NUMBER: AC003493

PROGRAM AREA: 24

PUBLICATION DATE: JUN 68

TITLE: PRERETIREMENT EDUCATION FOR HOURLY-RATED EMPLOYEES. FINAL REPORT.

PERSONAL AUTHOR: HUNTER, WOODROW W.

DESCRIPTOR: *ADJUSTMENT PROBLEMS; *ADULT EDUCATION PROGRAMS; ASSEMBLY (MANUFACTURING); BIBLIOGRAPHIES; CHANGING ATTITUDES; *GROUP DISCUSSION; INCOME; INSTRUCTIONAL MATERIALS; LABORERS; MARITAL STATUS; MENTAL HEALTH; PARTICIPANT CHARACTERISTICS; *RESEARCH; *RETIREMENT; STATISTICAL DATA

IDENTIFIER: *DETROIT

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$6.45

DESCRIPTIVE NOTE: 127P.

ISSUE: RIEMAY69

ABSTRACT: TO DEVELOP AND TEST PRERETIREMENT EDUCATIONAL MATERIALS AND METHODS FOR HOURLY RATED WORKERS AND TO DETERMINE THE IMMEDIATE EFFECTS OF PARTICIPATION BY THESE WORKERS AND THEIR WIVES IN A GROUP DISCUSSION PRERETIREMENT EDUCATION PROGRAM, A STUDY WAS UNDERTAKEN WITH 88 AUTOMOBILE WORKERS (AGED 60 OR MORE) AND 54 WIVES AS VOLUNTEERS. SIX TYPES OF MATERIALS WERE USED FOR GROUP STUDY: ESSAYS, CASE HISTORIES, A RETIREMENT CHECKLIST, SHORT FILMS, STILL PICTURES, AND A DISCUSSION LEADER'S MANUAL. AFTER 17 MEASURES OF CHANGE AMONG EXPERIMENTAL AND CONTROL WORKERS, THE DISCUSSION PROGRAM DID NOT SEEM TO HAVE CHANGED WORKERS' ATTITUDES TOWARD LIFE IN GENERAL, RETIREMENT, HEALTH, OR INCOME, BUT IT ENCOURAGED PARTICIPANTS TO TAKE PREPARATORY RETIREMENT STEPS. WIVES IN THE EXPERIMENTAL GROUP COMPLETED THE PROGRAM WITH SIGNIFICANTLY MORE FAVORABLE SCORES ON HEALTH SELF-APPRAISAL AND RETIREMENT INCOME, WHILE WIVES IN THE CONTROL GROUP HAD A HIGHER SCORE ON PRESENT INCOME ATTITUDES. MARRIED PARTICIPANTS AND THOSE WITH INCOMES OVER $7000 ACHIEVED HIGHER MEAN CHANGE SCORES ON INDEXES MEASURING SELF SATISFACTION AND RETIREMENT ATTITUDES. (APPENDIXES INCLUDE TABLES AND 17 INDEXES. REFERENCES ARE INCLUDED.) (JF)

REPORT NUMBER: CRP-1422

CONTRACT NUMBER: OEC-2-10-047

BUREAU NUMBER: BR-5-0024

INSTITUTION NAME: MICHIGAN UNIV., ANN ARBOR. DIV. OF GERONTOLOGY.

ACCESSION NUMBER: EC024813

CLEARINGHOUSE ACCESSION NUMBER: VT007365

PUBLICATION DATE: AUG 68

TITLE: PREDICTIVE TESTING FOR ENTRANCE IN VOCATIONAL-TECHNICAL SCHOOLS; A STUDY OF THE PREDICTIVE VALUE OF A PRE-SELECTED BATTERY OF STANDARDIZED TESTS AS A TOOL FOR THE SELECTION OF ENTERING STUDENTS IN CERTAIN TRADE PROGRAMS OFFERED IN THE VOCATIONAL-TECHNICAL SCHOOLS OF THE STATE OF CONNECTICUT.

PERSONAL AUTHOR: MILLER, JOHN G.

DESCRIPTOR: ACHIEVEMENT TESTS; *ADMISSION (SCHOOL); ELECTRICIANS; MACHINE TOOL OPERATORS; PERFORMANCE TESTS; *PREDICTIV E ABILITY (TESTING); *PREDICTIVE MEASUREMENT; *STANDARDIZED TESTS; TESTING PROGRAMS; TEST SELECTION; VOCATIONAL EDUCATION; *VOCATIONAL SCHOOLS

IDENTIFIER: CONNECTICUT

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.35

DESCRIPTIVE NOTE: 85P.

ISSUE: RIEAPR69

ABSTRACT: THIS STUDY WAS ORGANIZED FOR THE PURPOSE OF DETERMINING THE VALIDITY OF ANY PART OR PARTS OF A PRE-SELECTED BATTERY OF STANDARDIZED TESTS AS PREDICTORS OF SUCCESS IN SECONDARY SCHOOL TRADE PROGRAMS. THE STUDY WAS LIMITED TO THE TRADE AREAS OF MACHINE SHOP AND ELECTRICAL WIRING IN 14 STATE VOCATIONAL SCHOOLS IN CONNECTICUT. A BATTERY OF PRE-SELECTED STANDARDIZED TESTS WAS ADMINISTERED TO APPROXIMATELY 200 ENTERING PUPILS IN BULLARD-HAVENS TECHNICAL SCHOOL. THE TESTS WERE ALSO ADMINISTERED TO ABOUT 200 GRADE 12 PUPILS WHO WERE COMPLETING PROGRAMS IN TRADE MACHINE SHOP AND TRADE ELECTRICAL SHOP IN SIX PILOT SCHOOLS. ACHIEVEMENT TESTS WERE DEVELOPED AND ADMINISTERED TO THESE SAME 12TH GRADE PUPILS. AS A RESULT OF THIS PILOT STUDY, THE ORIGINAL STANDARDIZED TEST BATTERY WAS REDUCED FROM 30 VARIABLES (SUB-TESTS) TO 15 VARIABLES, THUS DECREASING THE TESTING TIME FROM THE ORIGINAL 21 HOURS TO 14 HOURS ON THE REDUCED BATTERY. SUBSEQUEN T RESEARCH INDICATED THAT A REDUCED NUMBER OF SELECTED VARIABLES WOULD YIELD ALMOST AS HIGH A CORRELATION AS THE ORIGINAL NUMBER OF VARIABLES. A RELATED DOCUMENT IS ED 019 437. (CH)

INSTITUTION NAME: NEW YORK UNIV., N.Y. CENTER FOR FIELD RESEARCH AND SCHOOL SERVICES.

SPONSORING AGENCY NAME: * DCONNECTICUT STATE BOARD OF EDUCATION, HARTFORD.; NEW YORK STATE EDUCATION DEPT., ALBANY.

ACCESSION NUMBER: EC024517

CLEARINGHOUSE ACCESSION NUMBER: RC002964

PUBLICATION DATE: JUN 68

TITLE: EMPLOYMENT IN APPALACHIA: TRENDS AND PROSPECTS.

PERSONAL AUTHOR: FULLER, THEODORE E.

DESCRIPTOR: *ECONOMIC DEVELOPMENT; ECONOMIC FACTORS; EMPLOYMENT LEVEL; EMPLOYMENT OPPORTUNITIES; EMPLOYMENT STATISTICS; *EMPLOYMENT TRENDS; *GEOGRAPHIC LOCATION; LOW INCOME GROUPS; *MANUFACTURING INDUSTRY; METROPOLITAN AREAS; POPULATION GROWTH; RURAL AREAS; *RURAL ECONOMICS; UNEMPLOYED

IDENTIFIER: P ALABAMA; *APPALACHIA; GEORGIA; KENTUCKY; MARYLAND; NEW YORK; NORTH CAROLINA; OHIO; PENNSYLVANIA; SOUTH CAROLINA; TENNESSEE; VIRGINIA; WEST VIRGINIA

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.10

DESCRIPTIVE NOTE: 60P.

ISSUE: RIEAPR69

ABSTRACT: 6 THE MANUFACTURING INDUSTRY'S AREAL AND STRUCTURAL GROWTH TRENDS WERE ANALYZED FOR INSIGHTS INTO THEIR POSSIBLE FUTURE ROLE IN APPALACHIA'S ECONOMY. BETWEEN 1950 AND 1960, TOTAL MANUFACTURING EMPLOYMENT EXPANDED IN LARGE-, MEDIUM-, AND SMALL-CENTER POPULATION AREAS, IN RATES INVERSE TO CENTER SIZE. HOWEVER, ABSOLUTE GAINS IN EMPLOYMENT WERE CONCENTRATED IN AREAS WITH LARGE- AND MEDIUM-SIZE URBAN CENTERS. THE GROWTH OF INDUSTRIES AMONG AREAS IN THE 1950'S WAS ESSENTIALLY IN THE NATIONALLY FAST-GROWING INDUSTRIES FOR LARGE- AND MEDIUM-CENTER AREAS AND IN THE NATIONALLY SLOW-GROWING INDUSTRIES IN SMALL-CENTER AREAS. IT WAS CONCLUDED THAT: (1) IF THE TRENDS OF THE 1950'S CONTINUE, THE GROWTH PROSPECTS OF LARGE- AND MEDIUM-CENTER AREAS IN APPALACHIA APPEAR BRIGHTER THAN THOSE OF SMALL-CENTER AREAS; AND (2) THE MANUFACTURING INDUSTRY WILL HAVE TO GROW AT HIGHER RATES IN SMALL-CENTER AREAS TO OFFSET EXISTING UNEMPLOYMENT AND LOW INCOMES AND TO COUNTERACT FURTHER DECLINES IN AGRICULTURE AND MINING. (JAM)

REPORT NUMBER: AER-134

INSTITUTION NAME: ECONOMIC RESEARCH SERVICE (DOA), WASHINGTON, D.C.

ACCESSION NUMBER: ED024399

CLEARINGHOUSE ACCESSION NUMBER: JC680469

PUBLICATION DATE: 68

TITLE: A STUDY OF TECHNOLOGY PROGRAMS: COLLEGE-LEVEL.

DESCRIPTOR: 1 CIVIL ENGINEERING; DATA PROCESSING; DRAFTING; ELECTRONIC TECHNICIANS; HEALTH OCCUPATIONS; *JUNIOR COLLEGES; MECHANICAL DESIGN TECHNICIANS; NURSING; *PARAMEDICAL OCCUPATIONS; *SUBPROFESSIONALS; *TECHNICAL EDUCATION; *TECHNICAL OCCUPATIONS

IDENTIFIER: *MINNESOTA

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.95

DESCRIPTIVE NOTE: 97P.

ISSUE: RIEAPR69

ABSTRACT: SEVERAL CURRENT TECHNOLOGY PROGRAMS ARE EVALUATED AND, WHERE APPROPRIATE, CHANGES RECOMMENDED. JOBS AT BOTH ENTRY AND SUBSEQUENT PROMOTION LEVELS ARE DESCRIBED, AND MANPOWER NEEDS SURVEYED. ORDINARILY, IT IS ONLY AFTER DISCUSSION WITH PROSPECTIVE EMPLOYERS (INDUSTRIAL, CLINICAL, MEDICAL) THAT CURRICULUMS ARE ADOPTED AND COSTS ESTIMATED FOR INSTRUCTION, LABORATORY FACILITIES, SUPPLIES, AND SUPPORTING STAFF. FOR CIVIL ENGINEERING, THE STUDY RECOMMENDS CERTAIN COURSE REVISIONS, MORE STAFF, AND INCREASED SCOPE. THE DRAFTING AND DESIGN PROGRAM SHOULD BE BROADENED TO INCLUDE A MANUFACTURING MAJOR AND RENAMED MECHANICAL TECHNOLOGY. ELECTRONICS TECHNOLOGY SHOULD BE REDESIGNED AND STRENGTHENED, AND EXPANDED TO INCLUDE A MEDICAL ELECTRONICS OPTION IN SECOND YEAR. LABORATORY TECHNOLOGY SHOULD BE REPLACED BY A CLINICAL LABORATORY PROGRAM, EMPHASIZING CLINICAL TRAINING AT LOCAL MEDICAL INSTITUTIONS. THE NURSING PROGRAM, BEGUN IN 1968, WILL BE EVALUATED AT A LATER DATE. PSYCHIATRIC TECHNOLOGY, STUDIED AS A POSSIBLE PROGRAM, IS, FOR SEVERAL REASONS, NOT RECOMMENDED. X-RAY TECHNOLOGY IS CONSIDERED A DESIRABLE PROGRAM, BUT ONLY AFTER AGREEMENT HAS BEEN REACHED WITH LOCAL MEDICAL INSTITUTIONS ON COST, FACILITY, AND PERSONNEL SHARING. DATA PROCESSING IS RECOMMENDED AS AN ADDITION TO THE CURRICULUM IN 1970. OTHER HEALTH-RELATED TECHNOLOGIES (DENTAL HYGIENE, INHALATION THERAPY, DIETETICS, MEDICAL RECORDS) SHOULD BE STUDIED FOR POSSIBLE ADOPTION. EXISTING PROGRAMS IN MEDICAL TECHNOLOGY AND OCCUPATIONAL AND PHYSICAL THERAPY ARE TO BE RE-EXAMINED. (HH)

INSTITUTION NAME: ROCHESTER STATE JUNIOR COLL., MINN.

ACCESSION NUMBER: EC024013

CLEARINGHOUSE ACCESSION NUMBER: AC003162

PUBLICATION DATE: JUN 67

TITLE: AN EVALUATION OF A TRAINING PROGRAM IN INDUSTRY.

PERSONAL AUTHOR: WHITE, STROLLER TOD

DESCRIPTOR: *ASSEMBLY (MANUFACTURING); CONTROL GROUPS; DOCTORAL THESES; ENGINEERS; *EVALUATION; EXPERIMENTAL GROUPS; *INDUSTRIAL PERSONNEL; *INDUSTRIAL TRAINING; KNOWLEDGE LEVEL; MEASUREMENT TECHNIQUES; PERFORMANCE; *PROBLEM SOLVING; PRODUCTION TECHNICIANS; QUALITY CONTROL; RESEARCH; SKILLED WORKERS; SUPERVISORS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 149P.; PH. D. THESIS.

ISSUE: RIEAPR69

ABSTRACT: (THIS STUDY INVESTIGATED THE EXTENT TO WHICH THE ANALYTIC TROUBLE SHOOTING PROGRAM (ATS) TRAINED TROUBLESHOOTERS IN AN AUTOMOBILE ASSEMBLY PLANT (1) TO USE INFORMATION ABOUT A PROBLEM TO DETERMINE THE CAUSE OF THAT PROBLEM AND (2) TO ANTICIPATE AND PREVENT PROBLEMS. TROUBLESHOOTERS IN TWO SPECIFIC DEPARTMENTS WERE GENERAL FOREMEN, FOREMEN, PROCESS ENGINEERS, INDUSTRIAL ENGINEERS, QUALITY CONTROL SUPERVISORS, AND CERTAIN SKILLED TRADESMEN (MAINLY ELECTRICIANS). FORTY EXPERIMENTAL AND 40 CONTROL SUBJECTS WERE USED. COURSE CONTENT LEARNING WAS EVALUATED BY A MULTIPLE-CHOICE TEST AND BY TROUBLE SHOOTING REPORTS OF TRAINEES WHO HAD USED ATS ON THE JOB. THE TRAINEES SIGNIFICANTLY OUTSCORED THE CONTROLS IN USING ATS TO GATHER INFORMATION ABOUT A PROBLEM; HOWEVER, THEY WERE NOT RATED SIGNIFICANTLY HIGHER THAN THE CONTROLS IN USING INFORMATION TO IDENTIFY THE CAUSES OF TROUBLE. RELATIVE TO THE CONTROLS, THE TRAINED GROUP HAD IMPROVED ON OPERATING EFFICIENCY; BUT THE CHANGE COULD NOT BE CONFIDENTLY ATTRIBUTED TO ATS TRAINING. (REASONS FOR THE INCONCLUSIVE OUTCOME WERE SUGGESTED.) (AUTHOR/LY)

AVAILABILITY: UNIVERSITY MICROFILMS, 300 ZEEB RD., ANN ARBOR, MICHIGAN 48106 (ORDER NO. 67-14,666, MF $3.00, XEROGRAPHY $7.00).

INSTITUTION NAME: MINNESOTA UNIV., MINNEAPOLIS.

ACCESSION NUMBER: ED023910

CLEARINGHOUSE ACCESSION NUMBER: VT007245

PROGRAM AREA: 08

PUBLICATION DATE: AUG 68

TITLE: U EFFECTS OF FIELD AND JOB ORIENTED TECHNICAL RETRAINING ON MANPOWER UTILIZATION OF THE UNEMPLOYED. VOCATIONAL-INDUSTRIAL EDUCATION RESEARCH REPORT. FINAL REPORT.

PERSONAL AUTHOR: BJORKQUIST, DAVID C.

DESCRIPTOR: *ADULT VOCATIONAL EDUCATION; COMPARATIVE ANALYSIS; EDUCATIONAL PROGRAMS; *FEDERAL PROGRAMS; *MECHANICAL DESIGN TECHNICIANS; PROGRAM DESCRIPTIONS; *PROGRAM EVALUATION; *TECHNICAL EDUCATION; UNEMPLOYED; VOCATIONAL FOLLOWUP

IDENTIFIER: & *MANPOWER DEVELOPMENT AND TRAINING ACT PROGRAMS; MDTA PROGRAMS; PENNSYLVANIA

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$6.05

DESCRIPTIVE NOTE: 119P.

ISSUE: RIEMAR69

ABSTRACT: ' A JOB-ORIENTED PROGRAM EMPHASIZING APPLICATION TO THE SPECIFIC OCCUPATION OF TOOL DESIGN WAS COMPARED WITH A FIELD-ORIENTED PROGRAM INTENDED TO GIVE A BROAD BASIC PREPARATION FOR A VARIETY OF JOBS IN THE FIELD OF MECHANICAL TECHNOLOGY. BOTH PROGRAMS WERE CONDUCTED UNDER THE MANPOWER DEVELOPMENT AND TRAINING ACT (MDTA) FOR A PERIOD OF 52 WEEKS. TRAINEE SELECTION WAS BASED UPON ELIGIBILITY UNDER MDTA, HIGH SCHOOL GRADUATION, FAMILIARITY WITH MECHANICS, DESIRE TO BE TECHNICIANS, AND PERFORMANCE ON THE GENERAL APTITUDE TEST BATTERY. BASED UPON THEIR PERSONAL PREFERENCE, 35 TRAINEES CHOSE THE JOB-ORIENTED PROGRAM AND 40 THE FIELD-ORIENTED PROGRAM. THIRTY TRAINEES COMPLETED THE JOB-ORIENTED PROGRAM AND 25 COMPLETED THE FIELD-ORIENTED PROGRAM. DURING THE FIRST 2 YEARS AFTER THE COMPLETION OF TRAINING, 91 PERCENT OF THE JOB-ORIENTED AND 63 PERCENT OF THE FIELD-ORIENTED GRADUATES WERE GAINFULLY EMPLOYED. FOLLOWUP INDICATED NO SIGNIFICANT DIFFERENCES BETWEEN GROUPS AS TO: (1) THEIR LEVEL OF INVOLVEMENT WITH DATA, PEOPLE, OR THINGS, (2) ATTITUDES TOWARD TRAINING RECEIVED, (3) SOCIAL CLASS IDENTIFICATION, (4) UNEMPLOYMENT, AND (5) EMPLOYER RATING. THE FIELD-ORIENTED GRADUATES EARNED HIGHER AVERAGE WEEKLY SALARIES. IT WAS RECOMMENDED THAT SHORTER TRAINING PERIODS BE CONSIDERED FOR THE PREPARATION OF TECHNICIANS IN CRITICAL OCCUPATIONS AND THAT TRAINING PROGRAM FLEXIBILITY BE ENCOURAGED. (MM)

CONTRACT NUMBER: OEC-4-10-108

BUREAU NUMBER: BR-5-0085

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. VOCATIONAL EDUCATION DEPT.

ACCESSION NUMBER: ED022906

CLEARINGHOUSE ACCESSION NUMBER: VT005795

PUBLICATION DATE: FEB 66

TITLE: STATEMENTS RELATING TO THE IMPACT OF TECHNOLOGICAL CHANGE. TECHNOLOGY AND THE AMERICAN ECONOMY, APPENDIX, VOLUME VI.

DESCRIPTOR: 4 *AUTOMATION; *BUSINESS; ECONOMIC DISADVANTAGEMENT; EMPLOYMENT; *INDUSTRY; INSURANCE COMPANIES; *LABOR UNIONS; MANUFACTURING INDUSTRY; PUBLIC POLICY; STEEL INDUSTRY; *TECHNOLOGICAL ADVANCEMENT; TELEPHONE COMMUNICATIONS INDUSTRY; UNEMPLOYMENT

EDRS PRICE: EDRS PRICE MF-$1.00 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 242P.

ISSUE: RIEFEB69

ABSTRACT: T FORTY-SEVEN STATEMENTS BY INDUSTRIAL AND BUSINESS SPOKESMEN, UNION AND ASSOCIATION REPRESENTATIVES, AND PROFESSORS CONCERN THE BROAD IMPACT OF TECHNOLOGICAL CHANGE ON INDIVIDUALS, ESTABLISHMENTS, AND SOCIETY IN GENERAL. SOME OF THE LONGER PRESENTATIONS ARE (1) "THE POVERTY AND UNEMPLOYMENT CRISIS," BY WALTER BUCKINGHAM, (2) "TECHNOLOGICAL CHANGE--PAST AND PRESENT," BY CLYDE E. DANKERT, (3) "AUTOMATION--ITS IMPACT ON EMPLOYMENT AND UNEMPLOYMENT," BY THE GENERAL ELECTRIC COMPANY, (4) "AUTOMATION--A POSITION PAPER," BY THE INTERNATIONAL CHEMICAL WORKERS UNION, (5) "ROLE AND PACE OF TECHNOLOGICAL CHANGE," BY THE METROPOLITAN LIFE INSURANCE COMPANY, (6) "THE IMPACT OF AUTOMATION ON AMERICAN UNIONISM AND ITS POSSIBLE CONSEQUENCES," BY JULIUS REZLER, AND (7) "AUTOMATION--PROMISE AND PROBLEMS," BY THE UNITED MINE WORKERS OF AMERICA. OTHER APPENDIXES TO VT 003 962 ARE VT 003 960, VT 003 961, AND VT 005 794-VT 005 797. (EM)

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 (GPO Y3.T22--2T22/APP/VI, $1.50)

INSTITUTION NAME: NATIONAL COMMISSION ON TECHNOLOGY, AUTOMATION AND ECONOMIC PROGRESS, WASHINGTON, D.C.

ACCESSION NUMBER: EC022851

CLEARINGHOUSE ACCESSION NUMBER: VT003219

PUBLICATION DATE: JUN 64

TITLE: THE NATURE OF AUTOMATED JOBS AND THEIR EDUCATIONAL AND TRAINING REQUIREMENTS.

PERSONAL AUTHOR: FINE, S.A.

DESCRIPTOR: *AUTOMATION; *EDUCATIONAL NEEDS; EMPLOYEE ATTITUDES; INTERVIEWS; JOB ANALYSIS; MANUFACTURING; *MANUFACTURING INDUSTRY; OCCUPATIONAL INFORMATION; ON THE JOB TRAINING; QUESTIONNAIRES; *SEMISKILLED OCCUPATIONS; *SKILLED OCCUPATIONS; SURVEYS; VOCATIONAL ADJUSTMENT; WORK SIMPLIFICATION

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 34P.

ISSUE: RIEFEB69

ABSTRACT: OBJECTIVE INFORMATION CONCERNING THE IMPACT OF AUTOMATION ON EDUCATIONAL AND TRAINING REQUIREMENTS WAS OBTAINED FOR 132 EMPLOYEES ENGAGED IN ELECTRON TUBE, COMPUTER, AND STEEL MANUFACTURING PROCESSES THROUGH MANAGEMENT QUESTIONNAIRE RESPONSES, ANALYSIS OF JOB FUNCTIONS, AND EMPLOYER INTERVIEWS BEFORE AND AFTER THE INTRODUCTION OF AUTOMATION. THE MACHINE FEEDING AND TENDING JOBS, LOW FUNCTIONAL LEVEL JOBS, THAT EMERGE IN CONTINUOUS MATERIALS PROCESSING AND AUTOMATIC INSPECTION, REQUIRED THE SAME OR LESS EDUCATION THAN THE HAND ASSEMBLING OR TESTING JOBS THEY REPLACED. THE MACHINE PROCESSES WHICH INVOLVE SET UP, OPERATION, AND MINOR MAINTENANCE, HIGH FUNCTIONAL LEVEL JOBS, REQUIRED SIGNIFICANTLY HIGHER EDUCATION THAN HAND ASSEMBLY OR OPERATION OF SINGLE PURPOSE MACHINES. HIGH FUNCTIONAL LEVEL JOBS INVOLVING MAJOR RESPONSIBILITY FOR THE SET UP, OPERATION, AND PRODUCT QUALITY OF AUTOMATED MACHINES HAVING SELF-ADJUSTING ELECTRONIC FEATURES HAD AN INCREASED ORIENTATION TO DATA AND LESS DIRECT CONTACT WITH THINGS AND REQUIRED TRAINING OF A TECHNICAL NATURE IN ADDITION TO BROAD JOB EXPERIENCE. JOBS IN AUTOMATED SITUATIONS, OTHER THAN THE MACHINE FEEDING AND TENDING JOBS, WERE CONSIDERED MORE INTERESTING AND CHALLENGING, BUT ALSO MORE TENSION PRODUCING, DUE TO THE HIGHER RESPONSIBILITY ASSOCIATED WITH THEM. (HC)

REPORT NUMBER: OAM-3-63

AVAILABILITY: A CLEARINGHOUSE FOR FEDERAL SCIENCE AND TECHNICAL EDUCATION, 5285 PORT ROYAL RD., SPRINGFIELD, VA. 22151 (HC $15.60, MF $1.25).

SPONSORING AGENCY NAME: DOFFICE OF MANPOWER, AUTOMATION, AND TRAINING (DOL), WASHINGTON, D.C.

ACCESSION NUMBER: ED059295

CLEARINGHOUSE ACCESSION NUMBER: TM001186

PUBLICATION DATE: JUN 70

TITLE: PRESSMAN (RUBBER GOODS; RUBBER TIRE & TUBE) 559.885; PRESSMAN, O-RINGS (RUBBER GOODS) 559.885--TECHNICAL REPORT ON DEVELOPMENT OF THE USTES APTITUDE TEST BATTERY.

DESCRIPTOR: 4 *APTITUDE TESTS; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; *PRODUCTION TECHNICIANS; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: GATB; *GENERAL APTITUDE TEST BATTERY; PRESSMAN; PRESSMAN O RINGS

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 20P.

ISSUE: RIEMAY72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATBNORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE AND A PERSONNEL EVALUATION FORM ARE ALSO INCLUDED. (AG)

REPORT NUMBER: TR-S-17R

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: EC022093

CLEARINGHOUSE ACCESSION NUMBER: AC002443

PUBLICATION DATE: SEP 67

TITLE: MEETING MANPOWER SHORTAGES, A REVIEW OF REPORTED EXPERIENCE.

PERSONAL AUTHOR: SRB, JOZETTA H.

DESCRIPTOR: I *CONSTRUCTION INDUSTRY; DISADVANTAGED GROUPS; *EMPLOYMENT PRACTICES; *JOB TRAINING; *LABOR MARKET; LABOR UNIONS; *MANUFACTURING INDUSTRY; PROGRAMS; RECRUITMENT; SKILLED OCCUPATIONS; SKILLED WORKERS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 33P.

ISSUE: RIEFEB69

ABSTRACT: Z THIS REPORT PROVIDES A BRIEF BACKGROUND ACCOUNT OF THE TIGHTER LABOR MARKETS OF 1965 AND 1966 AND REVIEWS RECENT PUBLISHED MATERIALS AND DOCUMENTS BEARING ON THE VARIOUS WAYS BUSINESS AND INDUSTRY RESPONDED TO SHORTAGES OF SKILLED WORKERS, PARTICULARLY IN THE CONSTRUCTION AND MANUFACTURING INDUSTRIES. DISCUSSION OF CHANGES IN HIRING PRACTICES AND POLICIES INCLUDES (1) ATTRACTION OF NEW EMPLOYEES THROUGH UNUSUAL ADVERTISING, BOUNTY PAYMENTS, AND SPECIAL INDUCEMENTS, (2) IMPORTATION OF WORKERS, (3) WIDENING OF THE HIRING RANGE TO INCLUDE WOMEN, TEENAGERS, MINORITY GROUPS, PHYSICALLY DISABLED AND MENTALLY RETARDED. DISCUSSION OF EXPANDED TRAINING PROGRAMS INCLUDES TRAINING OFFERED BY PRIVATE INDUSTRY, LABOR UNIONS AND GOVERNMENT, INDIVIDUALLY AND UNDER JOINT OR COMMUNITY PROGRAMS. TRAINING OF THE OCCUPATIONALLY DISADVANTAGED IS CITED, BUT ATTENTION IS DRAWN TO THE NEGLIGIBLE IMPACT ON THE "HARD-CORE POOR." OTHER ALTERNATIVES CITED FOR MEETING SHORTAGES INCLUDE THE LONGER WORK WEEK, MULTIPLE JOB HOLDING, FARMING OUT WORK, RENTING EMPLOYEES, REDESIGNING THE JOB, CHANGING THE WORK ENVIRONMENT, AND CHANGING TECHNOLOGY AND PLANT LOCATION. A 29-ITEM BIBLIOGRAPHY IS INCLUDED. (RT)

AVAILABILITY: NEW YORK STATE SCHOOL OF INDUSTRIAL AND LABOR RELATIONS, CORNELL UNIVERSITY, ITHACA, NEW YORK 14850. ($2.00)

INSTITUTION NAME: ; STATE UNIV. OF NEW YORK, ITHACA. SCHOOL OF INDUSTRIAL AND LABOR RELATIONS AT CORNELL UNIV.

ACCESSION NUMBER: ED021131

CLEARINGHOUSE ACCESSION NUMBER: VT005777

PUBLICATION DATE: MAR68

TITLE: THE EDUCATION AND EMPLOYMENT OF TECHNICIANS. INTERIM REPORT.

PERSONAL AUTHOR: BJORKQUIST, DAVID C., ED.

DESCRIPTOR: *CONFERENCE REPORTS; EDUCATIONAL PROGRAMS; INFORMATION DISSEMINATION; *MANPOWER DEVELOPMENT; MANPOWER UTILIZATION; *MECHANICAL DESIGN TECHNICIANS; RESEARCH PROJECTS; *TECHNICAL EDUCATION

IDENTIFIER: MDTA PROGRAMS

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$3.44

DESCRIPTIVE NOTE: 84P.

ISSUE: CURREPT

ABSTRACT: # THE TECHNICAL MANPOWER CONFERENCE, HELD AT THE PENNSYLVANIA STATE UNIVERSITY CAMPUS ON JANUARY 24 AND 25, 1968, WAS THE FIRST PHASE IN THE DISSEMINATION OF THE RESEARCH PROJECT, "EFFECTS OF FIELD AND JOB ORIENTED TECHNICAL RETRAINING ON MANPOWER UTILIZATION OF THE UNEMPLOYED." THE PRESENTATIONS IN PART I, INTENDED TO PROVIDE BACKGROUND AND GENERAL CONSIDERATIONS CONCERNING THE EDUCATION AND INDUSTRIAL UTILIZATION OF TECHNICIANS, ARE--(1) "THE EDUCATION AND UTILIZATION OF TECHNICIANS" BY F.A. GREGORY, (2) "DEVELOPING TECHNICAL MANPOWER, THE ROLE OF INDUSTRY" BY F.R. THORNTON, (3) "DEVELOPING TECHNICAL MANPOWER, THE ROLE OF EDUCATION" BY R.M. KNOEBEL, AND (4) "TECHNICAL MANPOWER AND INDUSTRIAL DEVELOPMENT" BY T.R. ROBB. THE PRESENTATIONS IN PART II, CONCERNED WITH AN EFFORT TO ANSWER SPECIFIC QUESTIONS ABOUT THE EDUCATION AND EMPLOYMENT OF MECHANICAL TECHNICIANS, ARE--(1) "FIELD-ORIENTED TECHNICIAN EDUCATION" BY W.A. DUNN, (2) "JOB-ORIENTED TECHNICAL EDUCATION" BY G.W. ELISON, (3) "MANPOWER RESEARCH, IMPLICATIONS FOR THE EDUCATION OF TECHNICIANS" BY C.R. FINCH, AND (4) "THE DESIGN GRADUATE AND HIS JOB" BY S.R. WIERSTEINER. (HC)

REPORT NUMBER: BR-5-0085

CONTRACT NUMBER: OEC-4-10-108

INSTITUTION NAME: (PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF VOCATIONAL EDUCATION.

ACCESSION NUMBER: ED020314

CLEARINGHOUSE ACCESSION NUMBER: VT002676

PUBLICATION DATE: 67

TITLE: ELECTRONIC TECHNICIAN PERSONNEL AND TRAINING NEEDS OF IOWA INDUSTRIES.

PERSONAL AUTHOR: WEEDE, GARY DEAN

DESCRIPTOR: *EDUCATIONAL NEEDS; ELECTRICAL OCCUPATIONS; *ELECTRONIC TECHNICIANS; EMPLOYER ATTITUDES; EMPLOYMENT OPPORTUNITIES; EMPLOYMENT PROJECTIONS; EMPLOYMENT STATISTICS; FIELD INTERVIEWS; *MANUFACTURING INDUSTRY; OCCUPATIONAL SURVEYS; *PERSONNEL NEEDS; QUESTIONNAIRES; *TECHNICAL EDUCATION

IDENTIFIER: IOWA

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.60

DESCRIPTIVE NOTE: 38P.

ISSUE: CUMREPT

ABSTRACT: $ THE PURPOSE OF THIS STUDY WAS TO PROVIDE DATA FOR USE IN DEVELOPING OR IMPROVING ELECTRONIC TECHNOLOGY PROGRAMS. A POSTAL CARD QUESTIONNAIRE WAS SENT TO 678 MANUFACTURING AND PROCESSING INDUSTRIES IN IOWA EMPLOYING MORE THAN 50 PERSONS AND ALL ELECTRICAL, ELECTRONIC, AND PRECISION INSTRUMENT MANUFACTURERS EMPLOYING FEWER THAN 50 PERSONS. DATA WERE COMPILED FROM THE MAIN QUESTIONNAIRE, COMPLETED BY 115 FIRMS EMPLOYING 99,045 PERSONS, AND FROM INTERVIEWS WITH REPRESENTATIVES OF THE 11 INDUSTRIES EMPLOYING 10 OR MORE ELECTRONIC TECHNICIANS. THE FIRMS REPORTED A NEED FOR 205 ELECTRONIC TECHNICIANS BY JANUARY 1, 1968 AND 544 BY 1972. ALTHOUGH A DEFINITE NEED WAS INDICATED, IT VARIED WITH THE SIZE OF INDUSTRY, PRODUCT MANUFACTURED, AND GEOGRAPHICAL LOCATION AND WAS DIFFICULT TO PREDICT BEYOND 1 YEAR. THE MAIN SOURCE OF TECHNICALLY TRAINED ELECTRICAL PERSONNEL WAS IN-COMPANY TRAINING PROGRAMS. QUESTIONNAIRE RESPONSES INDICATED THAT TRAINING IS NEEDED IN NINE BASIC DISCIPLINES--MATHEMATICS, BASIC PRINCIPLES OF PHYSICS, SHOP OPERATIONS AND RELATED INFORMATION, TECHNICAL DRAWING, A-C AND D-C CIRCUITS AND MACHINES, ELECTRONIC COMPONENTS AND CIRCUITS, USE AND REPAIR OF TEST EQUIPMENT, TV CIRCUITS, AND DATA PROCESSING. IT WAS FELT THAT SIMILAR STUDIES SHOULD BE CONDUCTED FOR ELECTRONIC TECHNICIANS IN THE COMMUNICATIONS AND COMPUTER SERVICING INDUSTRIES. (HC)

INSTITUTION NAME: IOWA STATE UNIV. OF SCIENCE AND TECHNOLOGY, AMES.

ACCESSION NUMBER: EC020049

CLEARINGHOUSE ACCESSION NUMBER: RC002476

PUBLICATION DATE: JUN67

TITLE: WORK SKILL NEEDS FOR THE ECONOMIC DEVELOPMENT OF ARKANSAS, A REPORT.

PERSONAL AUTHOR: DAVIS, J. CLARK ; AND OTHERS

DESCRIPTOR: AGRICULTURAL OCCUPATIONS; BIBLIOGRAPHIES; BUSINESS CYCLES; ECONOMIC DEVELOPMENT; *EMPLOYMENT PROJECTIONS; MANUFACTURING INDUSTRY; MIGRATION PATTERNS; OCCUPATIONAL MOBILITY; POPULATION GROWTH; *POPULATION TRENDS; *RURAL AREAS; SKILL DEVELOPMENT; STATISTICAL DATA; *STATISTICAL SURVEYS; VOCATIONAL ADJUSTMENT; *VOCATIONAL EDUCATION; VOCATIONAL TRAINING CENTERS

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.44

DESCRIPTIVE NOTE: 34P.

ISSUE: CUMREPT

ABSTRACT: A GROWING POPULATION, MIGRATION FROM RURAL TO URBAN AREAS, AND AN EXPANDING MANUFACTURING INDUSTRY IS FORCING ARKANSAS TO REAPPRAISE ITS BASIC SKILLS OFFERINGS IN VOCATIONAL EDUCATION. SINCE ARKANSAS IS NOT IN A POSITION TO PROVIDE MASSIVE INCREASES IN SPENDING FOR VOCATIONAL EDUCATION, THE STATE MUST DECIDE IF IT IS DIRECTING ITS EXPENDITURES TO THE MOST URGENT NEEDS, THEREBY RAISING ITS AVERAGE INCOME TO THE POINT WHERE FUNDS ARE AVAILABLE TO PROVIDE AN ADEQUATE COMPREHENSIVE EDUCATIONAL PROGRAM. STATISTICAL PROJECTIONS OF POPULATION TRENDS AND EMPLOYMENT REQUIREMENTS STRESS THE INCREASING NEED FOR SKILLED LABOR. CONCLUSIONS EMPHASIZE THAT OFFICIALS IN ARKANSAS MUST RE-EXAMINE THEIR TRAINING EXPENDITURES TO ENSURE THAT MAXIMUM BENEFIT TO THE STATE IS REALIZED FROM PRESENTLY LIMITED FUNDS. (DK)

INSTITUTION NAME: NEVADA UNIV., RENO. SCHOOL PLANNING LAB.

ACCESSION NUMBER: EC019972

CLEARINGHOUSE ACCESSION NUMBER: LI000469

PUBLICATION DATE: 67

TITLE: STRENGTH AND OTHER CHARACTERISTICS OF BOOK PAPERS 1800-1899. PERMANENCE/DURABILITY OF THE BOOK--V.

DESCRIPTOR: 0 *BOOKS; EVALUATION; EVALUATION METHODS; LIBRARY MATERIALS; MANUFACTURING; *PAPER (MATERIAL); *PHYSICAL CHARACTERISTICS; *PRESERVATION; TEMPERATURE

EDRS PRICE: EDRS PRICE MF-$0.50 HC-$4.72

DESCRIPTIVE NOTE: 116P.

ISSUE: CUMREPT

ABSTRACT: OBJECTIVES OF THE STUDY WERE TO--(1) ASCERTAIN THE PRESENT STRENGTH OF BOOK PAPERS TYPICAL OF THOSE MANUFACTURED DURING THE 19TH CENTRUY AND NOW PART OF AMERICAN RESEARCH LIBRARY COLLECTIONS, (2) IDENTIFY CAUSES OF DETERIORATION, (3) PROPOSE A SIMPLE METHOD FOR IDENTIFYING VOLUMES NEEDING STABILIZATION, AND (4) RECOMMEND METHODS OF STABILIZATION. THE EXAMINATION OF 500 NON-FICTION BOOKS PUBLISHED FROM 1800-1899 REVEALED THAT THE MAJOR CAUSE OF THE DETERIORATION OF BOOK PAPER AFTER MID-19TH CENTURY IS THE ACIDITY OF ALUM-ROSIN SIZE, WHICH WAS USED INCREASINGLY TO SIZE BOTH WOOD PULP AND RAG FIBER PAPERS. ALTHOUGH WOOD PULP WAS REPLACING RAG FIBER AT THIS TIME AND IS POPULARLY THOUGHT TO BE THE MAIN REASON FOR LOSS OF BOOK PAPER STRENGTH, THE STUDY SHOWED THAT ALL-RAG PAPERS SUFFERED A SIMILAR DROP IN QUALITY. THE CHLOROPHENOL-RED SPOT TEST WAS FOUND TO BE RELIABLE FOR INDENTIFYING MOST OF THE BOOK PAPERS NEEDING STABILIZATION. THE STUDY ALSO FOUND THAT PRINTER'S INK DID NO VISIBLE DAMAGE TO THE PAPERS TESTED, ALTHOUGH IT CAUSED A LOSS OF 30 PERCENT IN FOLDING STRENGTH. METHODS RECOMMENDED FOR DELAYING OR PREVENTING DETERIORATION OF 19TH CENTURY BOOK PAPERS INVOLVE DE-ACIDIFICATION AND STORAGE AT LOWERED TEMPERATURES. APPENDED IS A LIST OF BOOKS TESTED, A TABULAR PRESENTATION OF TEST DATA, AND A BIBLIOGRAPHY OF 43 ITEMS. THIS STUDY WAS CONDUCTED UNDER A GRANT FROM THE COUNCIL ON LIBRARY RESOURCES AND IS ALSO AVAILABLE FROM THE W.J. BARROW RESEARCH LABORATORY, INC., 428 N. BLVD. P.O. BOX 7311, RICHMOND, VIRGINIA 23221, FREE OF CHARGE. (JB)

INSTITUTION NAME: BARROW (W.J.) RESEARCH LABORATORY, RICHMOND, VA.

ACCESSION NUMBER: EC019511

CLEARINGHOUSE ACCESSION NUMBER: VT005544

PROGRAM AREA: 08

PUBLICATION DATE: FEB68

TITLE: G EVALUATING THE EFFICIENCY AND EFFECTIVENESS OF SELF-INSTRUCTIONAL METHODS FOR SELECTED AREAS OF VOCATIONAL EDUCATION. FINAL REPORT.

PERSONAL AUTHOR: COFFEY, JOHN L. ; AND OTHERS

DESCRIPTOR: 4 AUDITORY DISCRIMINATION; *AUTOINSTRUCTIONAL AIDS; AUTO MECHANICS (OCCUPATION); COSMETOLOGISTS; DRAFTSMEN; ELECTRICIANS; *EVALUATION; HAND TOOLS; *JOB SKILLS; MACHINISTS; *MATERIAL DEVELOPMENT; MATHEMATICS; ORAL COMMUNICATION; PROBLEM SOLVING; PROGRAMED MATERIALS; PROGRAMED UNITS; SHEET METAL WORKERS; SKILL ANALYSIS; TASK PERFORMANCE; *TRADE AND INDUSTRIAL EDUCATION; UNITS OF STUDY (SUBJECT FIELDS); VISUAL DISCRIMINATION; WELDERS

IDENTIFIER: COSMETOLOGISTS; TASK ANAYSIS

EDRS PRICE: EDRS PRICE MF-$1.00 HC-$8.80

DESCRIPTIVE NOTE: 218P.

ISSUE: CURREPT; MP68

ABSTRACT: THE TWO MAJOR PHASES OF THIS RESEARCH WERE (1) ANALYZING TRADE AND INDUSTRIAL EDUCATION TO IDENTIFY AND DESCRIBE PRIMARY VOCATIONAL SKILLS, AND (2) DEVELOPING AND EVALUATING NINE SELF-INSTRUCTIONAL UNITS. THREE INSTRUMENTS WERE USED IN ANALYZING VOCATIONAL CONTENT SOURCES TO IDENTIFY AND DESCRIBE GENERAL BEHAVIORS AS WELL AS TRADE-SPECIFIC EXAMPLES OF HOW THE BEHAVIORS ARE DEMONSTRATED WITHIN AUTOMOTIVE MECHANICS, COSMETOLOGY, DRAFTING, ELECTRICAL-ELECTRONICS, MACHINE TRADES, SHEET METAL, AND WELDING. THE MAJOR RESULT OF THE ANALYSIS PHASE WAS THE DEVELOPMENT OF A BEHAVIORAL CATALOG CONTAINING THE GENERAL BEHAVIORS INVOLVED IN TRADE AND INDUSTRIAL EDUCATION AND SPECIFIC EXAMPLES OF HOW THESE BEHAVIORS ARE DEMONSTRATED. SELF-INSTRUCTIONAL UNITS DEVELOPED TO TEACH EIGHT SELECTED SKILLS WERE--(1) OPERATING HACKSAWS AND OPERATING SCREWDRIVERS TO TEACH HAND TOOL OPERATION, (2) COMMUNICATING COURTEOUSLY IN COSMETOLOGY TO TEACH ORAL COMMUNICATION, (3) VISUALIZING STATIONARY THREE DIMENSIONAL OBJECTS FROM TWO-DIMENSIONAL DRAWINGS TO TEACH VISUALIZATION, (4) DETERMINING THE CAUSES OF TIRE WEAR TO TEACH VISUAL DIAGNOSIS, (5) IDENTIFYING METALS TO TEACH SENSORY DISCRIMINATION, (6) DOING A GOOD JOB AT WORK TO TEACH PERFORMANCE EVALUATION, (7) GIVING A BASIC HAIRCUT TO TEACH TASK PERFORMANCE, AND (8) LETTERING TO TEACH TWO-DIMENSIONAL FORM CONSTRUCTION. STUDIES OF THE SKILLS OF AUDITORY DIAGNOSIS AND MATHEMATICAL WORD-PROBLEM SOLVING DID NOT RESULT IN UNITS THAT COULD BE EVALUATED. EVALUATIONS OF FIVE UNITS SUPPORTED THE CONTENTION THAT SELF-INSTRUCTION IS EFFICIENT AND EFFECTIVE. A PROGRESS REPORT OF THE PROJECT IS ED 010 403. (PS)

REPORT NUMBER: BR-5-1363

INSTITUTION NAME: BATTELLE MEMORIAL INST., COLUMBUS, OHIO.

ACCESSION NUMBER: EC019411

CLEARINGHOUSE ACCESSION NUMBER: VT001836

PUBLICATION DATE: DEC66

TITLE: SELECTION AND TRAINING, A SURVEY OF IOWA MANUFACTURING FIRMS. MONOGRAPH SERIES NO. 4.

PERSONAL AUTHOR: SHERIFF, DON R. ; AND OTHERS

DESCRIPTOR: *EDUCATIONAL PROGRAMS; EMPLOYMENT PRACTICES; EMPLOYMENT TRENDS; *INDUSTRIAL TRAINING; JOB APPLICATION; *MANUFACTURING INDUSTRY; *PERSONNEL SELECTION; QUESTIONNAIRES; RECRUITMENT; SURVEYS; VOCATIONAL EDUCATION

IDENTIFIER: IOWA

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$2.32

DESCRIPTIVE NOTE: 56P.

ISSUE: CUMREPT

ABSTRACT: INFORMATION ON EMPLOYEE SELECTION AND TRAINING ACTIVITIES WAS SECURED FROM QUESTIONNAIRES RETURNED BY 215 OF 283 FIRMS EMPLOYING AT LEAST 100 PERSONS. DATA FROM 207 SEPARATE ITEMS FOR EACH FIRM WERE KEY PUNCHED AND TABULATED INTO MULTIVARIATE CROSS-CLASSIFICATIONS. OVER 60 PERCENT OF THE FIRMS WERE IN CITIES HAVING OVER 25,000 POPULATION, 40 PERCENT WERE BRANCHES OR DIVISIONS OF MULTI-PLANT COMPANIES, 50 PERCENT WERE UNDER 25 YEARS OLD, AND 53 PERCENT HAD BETWEEN 100 AND 250 EMPLOYEES. RECRUITMENT TECHNIQUES VARIED WITH THE TYPE OF EMPLOYEE TO BE SELECTED. NEWSPAPER ADVERTISING WAS MOST COMMONLY USED FOR MANAGERIAL, PROFESSIONAL, AND TECHNICAL EMPLOYEES, PUBLIC EMPLOYMENT AGENCIES FOR CLERICAL EMPLOYEES, AND UNSOLICITED APPLICATIONS FOR HOURLY EMPLOYEES. AS THE EMPLOYMENT LEVEL OF THE INDIVIDUAL TO BE SELECTED INCREASED, THE GREATER WAS THE LIKELIHOOD THAT THE FIRM WOULD USE SOME FORM OF ADVERTISING, CONTACT A PRIVATE EMPLOYMENT AGENCY, OR RECRUIT THROUGH TECHNICAL INSTITUTES OR COLLEGES. ONLY 159 FIRMS SUPPLIED INFORMATION ON TRAINING PROGRAMS. OF THESE, 85.5 PERCENT OFFERED NEW EMPLOYEE ORIENTATION, 47.2 OFFERED APPRENTICESHIP PREPARATION, 60.4 PERCENT OFFERED CLERICAL EDUCATION, AND 48.3 PERCENT PROVIDED TECHNICAL TRAINING. MOST TRAINING WAS OFFERED ON AN INPLANT BASIS. PRACTICES MOST FREQUENTLY USED WERE ON-THE-JOB TRAINING, CORRESPONDENCE COURSE, OUT-OF-PLANT TRAINING, TUITION REFUND BY EMPLOYERS TO ENCOURAGE EMPLOYEE PARTICIPATION IN TRAINING PROGRAMS, AND EVALUATION OF TRAINING ACTIVITIES BY PERFORMANCE RECORDS AND RESULTS-ORIENTED DATA. APPENDIXES INCLUDE THE SURVEY INSTRUMENTS. (EM)

INSTITUTION NAME: IOWA UNIV., IOWA CITY. CENTER FOR LABOR AND MANAGEMENT.

ACCESSION NUMBER: EC018716

CLEARINGHOUSE ACCESSION NUMBER: AC002161

PUBLICATION DATE: MAR68

TITLE: > THE TRAINING CENTER, DIFFERENT PURPOSES, DIFFERENT DESIGNS, A LOOK AT SELECTED CORPORATE TRAINING CENTERS.

PERSONAL AUTHOR: MAHLER, HARRY B.

DESCRIPTOR: AUDIOVISUAL AIDS; *BUILDING DESIGN; CENTRAL SOUND SYSTEMS; CLOSED CIRCUIT TELEVISION; *CONTINUING EDUCATION CENTERS; *INDUSTRY; *INSTRUCTIONAL TECHNOLOGY; MANAGEMENT DEVELOPMENT; MEETINGS; MERCHANDISING; PROJECTION EQUIPMENT; SEMINARS; TELEPHONE INSTRUCTION

IDENTIFIER: BELL SYSTEM; BUTLER MANUFACTURING; EASTMAN KODAK; J.C. PENNEY; TRAVELERS INSURANCE

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

ISSUE: CUMREPT

ABSTRACT: UNIQUE FEATURES AND FLOOR PLANS OF FUNCTIONALLY DESIGNED CORPORATE TRAINING CENTERS ARE DESCRIBED. THE TRAVELERS EDUCATION CENTER HAS SIMPLY DESIGNED ROOMS AND FEW AUDIOVISUAL AIDS (AV). BUTLER MANUFACTURING HAS ITS STUDY CENTER IN A WING OF A MOTEL WHICH IS CONVENIENT TO THE GENERAL OFFICES AND DOWNTOWN AREA. SINCE COMPANY PERSONNEL USE THE CENTER ONLY THROUGH THE WINTER MONTHS, IT IS RENTED TO OTHER COMPANIES TO HELP PAY FOR MAINTENANCE AND OPERATION. THE J.C. PENNEY COMPANY USES VARIOUS AV EQUIPMENT SUCH AS CLOSED CIRCUIT TELEVISION, A MULTIPROJECTOR AND FULL SOUND SYSTEM FOR EXECUTIVE ORIENTATION AND TRAINING, GENERAL MEETINGS, AND DISPLAYS OF PURCHASED MERCHANDISE. A NATIONAL TELEPHONE DIAL PARALLEL ACCESS AUDIOMACHINE PLAYS TAPED TRAINING AND PROMOTION PROGRAMS FOR PENNEY EMPLOYEES CALLING FROM ANY PART OF THE COUNTRY. THE KODAK MARKETING EDUCATION CENTER HAS COMPLETE LEARNING FACILITIES AND SUCH SPECIAL FEATURES AS SEMINAR ROOMS WITH REVOLVING STAGES, A LARGE LABORATORY WORKSHOP AREA, AND A GRAPHIC ARTS-PHOTO AREA. THE BELL SYSTEM BUSINESS COMMUNICATION CENTER HAS EACH PIECE OF DEMONSTRATION EQUIPMENT MOUNTED ON DRAWERS WHICH RECEDE INTO A SCREEN WALL WHEN NOT IN USE. THIS ARTICLE APPEARED IN TRAINING IN BUSINESS AND INDUSTRY, VOLUME 5, NUMBER 3, MARCH, 1968. (PT)

ACCESSION NUMBER: ED019410

CLEARINGHOUSE ACCESSION NUMBER: VT001835

PUBLICATION DATE: 20APR64

TITLE: < DEVEOPMENT OF A PERFORMANCE SPECIMEN CHECK LIST FOR MACHINING PERSONNEL.

PERSONAL AUTHOR: BESTOCK, D.J.

DESCRIPTOR: *CRITICAL INCIDENTS METHOD; EVALUATION TECHNIQUES; *MACHINE TOOL OPERATORS; METHODS RESEARCH; OBSERVATION; *PERFORMANCE FACTORS; *PERSONNEL EVALUATION; *RATING SCALES

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

ISSUE: CUMREPT

ABSTRACT: A MODIFIED CRITICAL INCIDENT PERFORMANCE EVALUATION FORM FOR HOURLY MACHINING PERSONNEL WAS DEVELOPED, AND CERTAIN RATER AND RATING INSTRUMENT CHARACTERISTICS WERE INVESTIGATED FROM THE STANDPOINT OF THEIR EFFECTS ON THE VARIANCE OF PERFORMANCE. INTERVIEWS WERE CONDUCTED WITH FRONTLINE FOREMEN TO COLLECT PERFORMANCE SPECIMENS WHICH WERE EVALUATED AND INCORPORATED INTO A RATING FORM AND A RATING SCALE FOR OVERALL PERFORMANCE. THE FORM, CONSISTING OF 26 EFFECTIVE AND 26 INEFFECTIVE SPECIMENS, WAS TESTED BY 22 FOREMEN RATING A SAMPLE GROUP OF 198 MACHINISTS. THE RATIO OF EFFECTIVE TO INEFFECTIVE SPECMENS PROVED TO BE RELIABLE AND A RELEVANT MEASURE OF OVERALL PERFORMANCE. THE REGRESSION EQUATION OF THE EFFECTIVE-INEFFECTIVE VERSUS RATING SCORE WAS CONSISTENT WITH PREVIOUS RESULTS. A CRITICALITY FACTOR WAS OBTAINED FOR EACH SPECIMEN FROM THE AVERAGE FOREMEN WEIGHTS. THE INCORPORATION OF THE CRITICALITY FACTORS (THE MEASURES OF THE IMPORTANCE OF A PERFORMANCE SPECIMEN IN RELATION TO THE TOTAL SPECIMEN POPULATION) IN CALCULATING THE SPECIMEN RATIO DID NOT REDUCE THE VARIANCE OF ESTIMATE IN PREDICTING EVALUATION FROM OBSERVATION. BY REDUCING THE SPECIMEN LIST TO ITEMS WITH HIGH CRITICALITY FACTORS, THE EFFECTIVE-INEFFECTIVE RATIO WAS SIGNIFICANTLY REDUCED. THE INCREASE IN THE VARIANCE OF ESTIMATE DUE TO RATER DIFFERENCES DRAMATIZES THE NEED FOR A GENERAL EQUATION THAT WILL ESTIMATE AVERAGE PERFORMANCE EVALUATION RESPONSE FOR A GIVEN SET OF OBSERVED PERFORMANCES. THE FORM DEVELOPED IS RELIABLE AND RELEVANT AND MAY BE USED IN THE INDUSTRIAL COMPLEX FOR WHICH IT WAS DESIGNED. THE FORM IS INCLUDED. THIS DOCUMENT IS AVAILABLE FOR $1.50 FROM CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION, U.S. DEPARTMENT OF COMMERCE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VIRGINIA 22151. (HC)

REPORT NUMBER: TID-4500; V-1461

INSTITUTION NAME: UNION CARBIDE CORP., OAK RIDGE, TENN. NUCLEAR DIV.

ACCESSION NUMBER: ED018693

CLEARINGHOUSE ACCESSION NUMBER: AC000594

PUBLICATION DATE: 66

TITLE: BREAKTHROUGH IN ON THE JOB TRAINING.

PERSONAL AUTHOR: GOMERSALL, EARL R. ; MYERS, M. SCOTT

DESCRIPTOR: Y *ANXIETY; *EVALUATION; FEMALES; INTERPERSONAL RELATIONSHIP; MACHINE TOOL OPERATORS; *ON THE JOB TRAINING; RESEARCH; STATISTICAL DATA; SUPERVISORS; SUPERVISORY TRAINING; *TASK PERFORMANCE; *TIME FACTORS (LEARNING); WORK ATTITUDES

IDENTIFIER: INDUSTRAIL TRAINING; TEXAS INSTRUMENTS

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

ISSUE: CUMREPT

ABSTRACT: A STUDY WAS MADE AT TEXAS INSTRUMENTS INC. OF THE EFFECT OF ANXIETY ON LEARNING TIME AND ATTITUDES AMONG NEW EMPLOYEES. BEFORE INTERVIEWS WITH ASSEMBLY WORKERS AND THEIR SUPERVISORS THE EXPERIMENT IDENTIFIED THE IMPORTANCE OF ANXIETY IN INHIBITING JOB EFFECTIVENESS FOR BOTH OPERATORS AND SUPERVISORS. NEW WOMEN ASSEMBLY WORKERS WERE DIVIDED INTO A CONTROL GROUP AND AN EXPERIMENTAL GROUP. THE CONTROLS RECEIVED THE USUAL TWO HOUR, FIRST DAY ORIENTATION. THE EXPERIMENTAL GROUP RECEIVED THIS PLUS A SPECIAL ONE DAY ANXIETY REDUCTION SESSION IN WHICH THEY WERE ENCOURAGED TO THINK OF SUCCESS AND TO COMMUNICATE WITH THEIR SUPERVISORS. THE DIFFERENCE BETWEEN THE GROUPS IN LEARNING TIME AND ATTITUDE WAS APPARENT AT ONCE AND AT THE END OF ONE MONTH THE EXPERIMENTAL GROUP WAS SIGNIFICANTLY OUTPERFORMING THE CONTROLS. BY REDUCING ANXIETY, THE FOLLOWING GAINS WERE ACCOMPLISHED--TRAINING TIME WAS CUT IN HALF, COSTS WERE LOWERED TO ONE THIRD OF PREVIOUS LEVELS, ABSENTEEISM AND TARDINESS DROPPED TO ONE HALF, WASTE AND REJECTS TO ONE FIFTH, AND COSTS WERE CUT AS MUCH AS 15 TO 30 PERCENT. NEW AND TRANSFERRED SUPERVISORS WERE TRAINED BY THE EMPLOYEES, INCREASING COMMUNICATION, SUPERVISOR KNOWLEDGE OF OPERATIONS, AND CONFIDENCE IN SUPERVISORS. THIS ARTICLE APPEARED IN HARVARD BUSINESS REVIEW, VOLUME 44, NUMBER 4, JULY-AUGUST, 1966. 10 PAGES (PT)

ACCESSION NUMBER: EDC17663

CLEARINGHOUSE ACCESSION NUMBER: VT002893

PUBLICATION DATE: 67

TITLE: NUMERICAL CONTROL OF MACHINE TOOLS, AN INSTRUCTOR'S GUIDE.

DESCRIPTOR: 7 *CURRICULUM GUIDES; INSTRUCTIONAL MATERIALS; JUNIOR COLLEGES; *MACHINE TOOLS; MACHINISTS; *NUMERICAL CONTROL; *TEACHING GUIDES; TECHNICAL EDUCATION; TRADE AND INDUSTRIAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$7.88

DESCRIPTIVE NOTE: 195P.

ISSUE: CURREPT

ABSTRACT: IN A SUMMER WORKSHOP, JUNIOR COLLEGE INSTRUCTORS AND INDUSTRIAL SUPERVISORS DEVELOPED THIS GUIDE FOR TEACHER USE IN A 3-SEMESTER-HOUR COURSE AT THE JUNIOR COLLEGE LEVEL. THE COURSE OBJECTIVES ARE TO (1) UPGRADE JOURNEYMEN IN MACHINE TOOL OPERATION, MAINTENANCE, AND TOOLING, AND (2) ACQUAINT MANUFACTURING, SUPERVISORY, PLANNING, AND MAINTENANCE PERSONNEL AND ADVANCED VOCATIONAL-TECHNICAL STUDENTS WITH NUMERICAL CONTROL. COURSE UNITS ARE (1) INTRODUCTION TO NUMERICAL CONTROL, (2) NUMERICALLY CONTROLLED MACHINES, (3) CONTROL SYSTEMS, (4) TOOLING, (5) MACHINE OPERATOR'S RESPONSIBILITY, (6) FEED, SPEED, AND HORSEPOWER, (7) COORDINATE DEFINITION OF PART GEOMETRY, (8) NUMBER SYSTEMS, (9) PART PROGRAMING, (10) MANUSCRIPT PREPARATION, (11) ADAPT AND THE COMPUTER, AND (12) SUMMARY. EACH UNIT GIVES OBJECTIVES, SUGGESTIONS FOR INTRODUCING AND PRESENTING THE UNIT, A RESOURCE UNIT, AUDIOVISUAL AIDS, INSTRUCTIONAL AIDS, REFERENCES, AND STUDENT ACTIVITIES. SUPPLEMENTARY MATERIALS INCLUDE (1) 47 CLASS HANDOUTS, (2) A REPORT OF A SURVEY OF TRAINING NEEDS IN THE AREA OF NUMERICAL CONTROL, (3) A SAMPLE TEST, (4) A STANDARD ANSWER SHEET, (5) A FINAL EXAMINATION, AND (6) A GLOSSARY OF TERMS. MANY PHOTOGRAPHS, LINE DRAWINGS, AND ILLUSTRATIONS ARE INCLUDED. (EM)

INSTITUTION NAME: CALIFORNIA STATE DEPT. OF EDUCATION, SACRAMENTO. BUREAU OF INDUSTRIAL EDUCATION.

ACCESSION NUMBER: EC017661

CLEARINGHOUSE ACCESSION NUMBER: VT002442

PUBLICATION DATE: 66

TITLE: I MECHANICAL TECHNOLOGY, DESIGN AND PRODUCTION, SUGGESTED TECHNIQUES FOR DETERMINING COURSES OF STUDY IN VOCATIONAL EDUCATION PROGRAMS.

PERSONAL AUTHOR: PETERSON, CLARENCE E.

DESCRIPTOR: 2 *CURRICULUM DEVELOPMENT; CURRICULUM PLANNING; EDUCATIONAL NEEDS; *JOB ANALYSIS; *MECHANICAL DESIGN TECHNICIANS; OCCUPATIONAL CLUSTERS; *OCCUPATIONAL INFORMATION; *PRODUCTION TECHNICIANS; TECHNICAL EDUCATION; TRADE AND INDUSTRIAL EDUCATION

IDENTIFIER: MECHANICAL DESIGN TECHNOLOGY; PRODUCTION TECHNOLOGY

EDRS PRICE: EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 35P.

ISSUE: CURREPT

ABSTRACT: 0 THIS PUBLICATION IS THE THIRD IN A SERIES DESIGNED TO PROVIDE INFORMATION TO HELP STATES ORGANIZE AND OPERATE PROGRAMS UNDER TITLE VIII OF THE NATIONAL DEFENSE EDUCATION ACT OF 1958. THE OTHER PUBLICATIONS ARE "MECHANICAL DRAFTING AND DESIGN TECHNOLOGY" (VT 001 823) AND "ELECTRICAL AND ELECTRONIC TECHNOLOGY" (VT 002 421). EACH PUBLICATION INDICATES HOW JOB ANALYSIS AND JOB RELATIONSHIP TECHNIQUES CAN BE USED TO FACILITATE THE PLANNING OF TRAINING PROGRAMS. MECHANICAL DESIGN TECHNOLOGY IS CONCERNED WITH THE DEVELOPMENT, TESTING, EVALUATION, AND DESIGN OF MACHINERY, EQUIPMENT, INSTRUMENTS, AND OTHER MECHANICAL SERVICES PRIOR TO PRODUCTION. PRODUCTION TECHNOLOGY IS CONCERNED WITH INDUSTRIAL ENGINEERING PROBLEMS INVOLVING THE EFFICIENT USE OF MANPOWER, MATERIALS, AND MACHINES IN MASS PRODUCTION PROCESSES. BEFORE TECHNICAL CURRICULUMS CAN BE ESTABLISHED, IT IS NECESSARY TO IDENTIFY THE SPECIFIC OCCUPATIONS FOR WHICH TRAINING IS NEEDED AND TO ANALYZE AND TO PREPARE BRIEF JOB DESCRIPTIONS OF EACH. THE 20 JOB DESCRIPTIONS INCLUDED IN THIS BOOKLET WERE TAKEN FROM VOLUME I OF THE "DICTIONARY OF OCCUPATIONAL TITLES." AFTER SUBJECT MATTER AREAS ARE IDENTIFIED THROUGH THE JOB ANALYSIS, THE SUBJECTS MUST BE ARRANGED IN A LOGICAL ORDER AND INSTRUCTIONAL UNITS MUST BE DEVELOPED TO PROVIDE THE DESIRED LEARNING. THE PURPOSE OF THE SUGGESTED TECHNICAL TRAINING PROGRAMS IS TO PREPARE WORKERS FOR SINGLE OCCUPATIONS WITH CONTENT DERIVED FROM THE ANALYSIS OF THE SPECIFIC JOBS. A TRAINING REQUIREMENTS ANALYSIS FORM AND AN ANNOTATED BIBLIOGRAPHY TO PROVIDE A SOURCE FOR MORE DETAILED INFORMATION ARE INCLUDED. THIS DOCUMENT IS AVAILABLE FOR 25 CENTS FROM SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402. (HC)

REPORT NUMBER: OE-80014-CIRC-670-MISC-35703

INSTITUTION NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBER: ED016771

CLEARINGHOUSE ACCESSION NUMBER: VT001126

PUBLICATION DATE: 67

TITLE: JOB REDESIGN FOR OLDER WORKERS, TEN CASE STUDIES.

PERSONAL AUTHOR: MITNICK, EDWARD; ROTHBERG, HERMAN

DESCRIPTOR: Z ANNOTATED BIBLIOGRAPHIES; EMPLOYEES; EXPERIENCED LABORERS; INDUSTRY; *MANPOWER UTILIZATION; *MANUFACTURING; *MIDDLE AGED; VOCATIONAL ADJUSTMENT; *WORK SIMPLIFICATION

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

ISSUE: CUMREPT

ABSTRACT: AFTER IDENTIFYING FIRMS WHICH HAD USED JOB REDESIGN TO SALVAGE THE SKILL OF OLDER EMPLOYEES, RESEARCH INVESTIGATORS MADE 10 INTENSIVE CASE STUDIES IN FIRMS PRODUCING AIRCRAFT ENGINES, ALUMINUM FRAMING, BUILDING MATERIALS, CARPETS, COMPUTERS, COPPER PIPE FITTINGS, FOOTWEAR, HEAVY IRON PIPE, PRECISION INSTRUMENTS, AND PRINTED NOVELTIES. EACH STUDY DESCRIBES THE FIRM, THE JOBS PRIOR TO REDESIGN, THE RECOGNITION OF THE NEED TO REDESIGN, AND THE NATURE AND RESULTS OF THE REDESIGN. IT WAS FOUND THAT JOBS WERE CONSTANTLY BEING REDESIGNED TO IMPROVE EFFICIENCY, BUT ONLY OCCASIONALLY TO ADAPT THE JOB TO THE LIMITATIONS OF OLDER WORKERS. JOB REDESIGN FOR OLDER WORKERS WAS CARRIED OUT IN BOTH LARGE AND SMALL FIRMS, IN A WIDE VARIETY OF MANUFACTURING INDUSTRIES, AND IN A RANGE OF JOBS AFFECTING INDIVIDUALS WITH VARYING PERSONAL CHARACTERISTICS. THE TYPICAL REDESIGN CASE WAS INITIATED BY THE INFORMAL ACTIONS OF FOREMEN OR PLANT MANAGERS RATHER THAN BY FORMAL PROGRAMS. CHANGING THE CONTENT OF JOBS IN CONJUNCTION WITH EQUIPMENT IMPROVEMENT OR REALLOCATING DUTIES AMONG WORKERS TO ADAPT PARTICULAR JOBS TO THE CAPACITY OF OLDER WORKERS WERE SOME OF THE APPROACHES FOLLOWED. JOB REDESIGN USUALLY INVOLVED VERY LITTLE MONEY OUTLAY FOR NEW EQUIPMENT OR SCARCELY ANY LOSS IN OUTPUT DUE TO WORK INTERRUPTION, AND GENERALLY RESULTED IN IMPROVED PRODUCTIVITY. IT HAD SOME ADVANTAGES FOR BOTH THE WORKERS AND MANAGEMENT OVER THE PRACTICE OF REASSIGNING OLDER WORKERS TO OTHER JOBS. MECHANIZATION INVOLVED IN JOB REDESIGN FOR SOME OLDER WORKERS RESULTED IN DISPLACEMENT OF WORKERS, AND REASSIGNMENT OR RETIREMENT IN SOME CASES. AN ACCOUNT OF A UNION-SPONSORED PROJECT FOR RETAINING ON-THE-JOB OLDER WORKERS WHO HAVE LIMITED FUNCTIONAL CAPACITIES, A CHECKLIST FOR STUDYING JOB REDESIGN, AND A SELECTED ANNOTATED BIBLIOGRAPHY ON OLDER WORKERS EMPLOYMENT AND JOB REDESIGN ARE INCLUDED IN THE APPENDIX. A REPORT OF FOUR SELECTED CASE STUDIES IS AVAILABLE AS VT 002 887. THIS DOCUMENT IS AVAILABLE AS L2.3--1523 FOR 40 CENTS FROM GOVERNMENT PRINTING OFFICE, NORTH CAPITOL AND H STREETS, N.W., WASHINGTON, D.C. 20401. (HC)

REPORT NUMBER: BULL-1523

INSTITUTION NAME: BUREAU OF LABOR STATISTICS (DEPT. OF LABOR), WASHINGTON, D.C.

ACCESSION NUMBER: EC016122

CLEARINGHOUSE ACCESSION NUMBER: VT004248

PUBLICATION DATE: 31MAY67

TITLE: PROJECT EARNING POWER, GRANT RD-1806-G. HISTORY AND FINAL REPORT.

PERSONAL AUTHOR: LANGDON, MARGARET

DESCRIPTOR: *DEMONSTRATION PROGRAMS; *HANDICAPPED; HANDICRAFTS; HOME PROGRAMS; *MANUFACTURING; PROGRAM DESCRIPTIONS; PROGRAM EVALUATION; *REHABILITATION PROGRAMS; SHELTERED WORKSHOPS; VOLUNTEERS

IDENTIFIER: CALIFORNIA; CHICAGO; ILLINOIS; LOS ANGELES; NEW YORK CITY

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.76

DESCRIPTIVE NOTE: 17P.

ISSUE: CURREPT

ABSTRACT: THE PURPOSE OF THE PROJECT WAS TO APPLY CURRENT KNOWLEDGE, METHODS, AND TECHNIQUES IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT TO REHABILITATING THE HANDICAPPED BY USING THE LABOR FORCE AVAILABLE IN SHELTERED WORKSHOPS AND HOMEBOUND PROGRAMS. DEMONSTRATION PROGRAMS WERE ESTABLISHED AS TASK FORCES IN CHICAGO, NEW YORK, AND LOS ANGELES WITH THE HELP OF VOLUNTEER SPECIALISTS IN INDUSTRIAL DESIGN, PRODUCT ENGINEERING, MARKET RESEARCH, BUSINESS MANAGEMENT, AND RETAILING. SOME OF THE PROBLEMS ENCOUNTERED WERE (1) MANY DESIGNS WERE MORE ADAPTABLE TO MASS MACHINE THAN TO THE PROJECT PRODUCTION, AND MANY LACKED SUFFICIENT MARKETING APPEAL, (2) SOME ITEMS WERE TOO SEASONAL IN APPEAL, (3) THE WORKSHOP DIRECTORS WERE NOT ALWAYS ABLE TO EXPERIMENT WITH NEW DESIGNS, (4) THE HOMEBOUND PROGRAMS WERE NOT ALWAYS ABLE TO SUPPLY ENOUGH SKILLED WORKERS FOR QUANTITY AND QUALITY PRODUCTION, (5) MANY WORKSHOPS LACKED NECESSARY MACHINERY, AND (6) WORKSHOP DIRECTORS TENDED TO RESIST NEW OR ADDITIONAL RESPONSIBILITIES. DESPITE THE PROBLEMS, THE WORKSHOPS IN EACH CITY ADDED NEW PRODUCTS, PRODUCTS WERE PRODUCED AND SOLD, AND THE MACHINERY WAS ALTERED FOR USE BY THE HANDICAPPED. RECOMMENDATIONS CONCERNED FUNDING FOR A LONGER PERIOD OF TIME, REORGANIZING THE GOVERNING STRUCTURE, ESTABLISHING LABORATORY SHOPS, ESTABLISHING GEOGRAPHICALLY CONVENIENT CENTERS FOR PRODUCING AND MARKETING THE ITEMS AND PURCHASING RAW MATERIALS, AND MARKETING ON A NATIONWIDE BASIS AIMED AT DIFFERENT MARKETS SUCH AS GIFT, SOUVENIR, INTERIOR DESIGN, AND BOUTIQUE. (MM)

INSTITUTION NAME: NATIONAL SOCIETY FOR CRIPPLED CHILDREN AND ADULTS, CHICAGO, ILL.

ACCESSION NUMBER: ED016069

CLEARINGHOUSE ACCESSION NUMBER: VT002954

PUBLICATION DATE: 67

TITLE: CURRICULAR CONSIDERATIONS, OSWEGO.

PERSONAL AUTHOR: DEVORE, PAUL W.

DESCRIPTOR: E COMMUNICATIONS; *CURRICULUM PLANNING; *EDUCATIONAL OBJECTIVES; *EDUCATIONAL PHILOSOPHY; *INDUSTRIAL ARTS; INTELLECTUAL DISCIPLINES; MANUFACTURING INDUSTRY; TAXONOMY; *TECHNOLOGY; TRANSPORTATION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.04

DESCRIPTIVE NOTE: 24P.

ISSUE: CURREPT

ABSTRACT: 8 CURRICULUM STUDIES AT OSWEGO HAVE BEEN BASED ON A STUDY OF MAN AND HIS TECHNOLOGIES IN ORDER TO ANSWER BASIC QUESTIONS --(1) WHAT IS AND WHAT IS NOT MEANT BY THE NAME INDUSTRIAL ARTS, (2) WHAT SHOULD AND WHAT SHOULD NOT BE A PART OF THIS AREA OF STUDY, (3) WHAT RELATIONSHIPS EXIST BETWEEN INDUSTRIAL ARTS AND SIMILAR ACTIVITIES, AND (4) WHAT CRITERIA DO WE USE TO MEASURE THE VALIDITY OF WHAT WE ARE DOING. SEVERAL CURRICULUM EFFORTS ARE BASED ON THE PREMISE THAT INDUSTRIAL ARTS IS A STUDY OF MAN'S CREATIVE ENDEAVORS IN THE TECHNOLOGIES AND THAT THESE ENDEAVORS HAVE IDENTIFIABLE ORGANIZATION AND STRUCTURE. AN EDUCATIONAL PROGRAM OF INDUSTRIAL ARTS BASED UPON THE DISCIPLINES DERIVED FROM THE BODY OF KNOWLEDGE CREATED BY MAN IN THE TECHNOLOGIES PROVIDES A STRUCTURE WHICH IS EXTERNALLY STABLE AND INTERNALLY FLEXIBLE AND ADAPTABLE TO CHANGE. THE STRUCTURE ACCOMODATES PRESENT PROBLEMS AND PERMITS ESTABLISHMENT OF FRUITFUL PATTERNS OF INVESTIGATION FOR FUTURE DEVELOPMENTS. EVALUATION PERTAINING TO CLASSIFICATION SYSTEMS IN THE TECHNOLOGIES IS IN PROGRESS. WHAT WAS ONCE SEPARATED INTO DIFFERENT CATEGORIES IS NOW BEING INCORPORATED INTO A TOTAL SYSTEM SUCH AS A COMMUNICATION SYSTEM, A TRANSPORTATION SYSTEM, OR A PRODUCTION SYSTEM. FROM A STRUCTURE BASED ON CULTURAL UNIVERSALS IN THE TECHNOLOGIES, THE CURRICULUM PROBLEM CAN BE DELIMITED AND A SPECIFIC CONTENT RESERVOIR IDENTIFIED FROM WHICH OBJECTIVES, BASIC CONCEPTS, UNITS OF INSTRUCTION, PROGRAMS OF STUDY, AND METHODS OF IMPLEMENTATION CAN BE DETERMINED. (EM)

ACCESSION NUMBER: ED016064

CLEARINGHOUSE ACCESSION NUMBER: VT002464

PUBLICATION DATE: 65

TITLE: A STUDY OF RECOMMENDATIONS FOR TECHNICAL EDUCATION CURRICULA.

PERSONAL AUTHOR: ARNOLD, JOSEPH P.

DESCRIPTOR: ADMINISTRATIVE PERSONNEL; *CORE CURRICULUM; *CURRICULUM RESEARCH; *EDUCATIONAL NEEDS; EMPLOYEE ATTITUDES; EMPLOYER ATTITUDES; MANUFACTURING INDUSTRY; SUBPROFESSIONALS; *TECHNICAL EDUCATION

IDENTIFIER: ILLINOIS

EDRS PRICE: EDRS PRICE MF-$0.75 HC-$5.60

DESCRIPTIVE NOTE: 138P.

ISSUE: CUMREPT

ABSTRACT: THE PRIMARY PURPOSE OF THIS STUDY WAS TO HAVE MANAGEMENT PERSONNEL AND TECHNICIANS IDENTIFY CORES OF SUBJECT MATTER RELATED TO TECHNICIAN JOB PERFORMANCE AND TO DIFFERENTIATE BETWEEN THEIR JUDGMENTS. FIFTY-TWO TECHNICIANS AND 116 MANAGEMENT PERSONNEL IN 52 ILLINOIS FIRMS EMPLOYING 200 OR MORE PERSONS PARTICIPATED. A 99-CARD CURRICULUM DECK, REPRESENTING ESSENTIALLY ALL SUBJECT MATTER AREAS WHICH COULD BE CONSIDERED OF POSSIBLE VALUE AS PREPARATION FOR ANY ONE OF THE VARIOUS TECHNICAL OCCUPATIONS RESPONDED TO IN THE STUDY, WAS SORTED BY EACH RESPONDENT AS RELATED, SOMEWHAT RELATED, OR UNRELATED TO THE TECHNICIAN JOB PERFORMANCE. INTERVIEWS PROVIDED DATA ON THE AGE OF RESPONDENT, EDUCATIONAL BACKGROUND, JOB HISTORY, MANUFACTURING CLASSIFICATION OF THE EMPLOYING FIRM, AND MANAGEMENT-TECHNICIAN WORKING RELATIONSHIP. THE GENERAL CURRICULUM CORE DEFINED BY RESPONDENTS INCLUDED COMMUNICATION SKILLS, TESTING AND INSTRUMENTATION, MATHEMATICS, AND ENGINEERING GRAPHICS. INDIVIDUAL CORES EXTRACTED FROM THE CARD DECK WERE IDENTIFIED FOR ELECTRO-MECHANICAL, MECHANICAL, CHEM-MECHANICAL, CHEMICAL, AND CHEMICAL-FOODS TECHNICIANS. A SURPRISING NUMBER OF TECHNICIAN JOBS SEEMED TO BE HYBRIDS. SUCH HYBRIDIZATION HAS IMPLICATIONS FOR PROGRAMS OF STUDY WHICH MUST PROVIDE SUBJECT MATTER CONSISTENT WITH OCCUPATIONAL REQUIREMENTS. ALTHOUGH TECHNICIANS AND MANAGEMENT DIFFERED IN AGE, EDUCATIONAL ATTAINMENT, AND SALARY, THEIR VIEWS TOWARD 2-YEAR TECHNICAL CURRICULA WERE ESSENTIALLY THE SAME. THE CORE RECOMMENDATIONS, REPRESENTING THE COLLECTIVE VIEWS OF MANAGEMENT AND TECHNICIANS, WERE RECOMMENDED FOR USE AS GUIDELINES IN THE DESIGN AND REFINEMENT OF POST-HIGH SCHOOL TECHNICAL PROGRAMS. (HC)

INSTITUTION NAME: PURDUE UNIV., LAFAYETTE, IND.

ACCESSION NUMBER: ED016054

CLEARINGHOUSE ACCESSION NUMBER: VT001726

PUBLICATION DATE: JUN64

TITLE: COMMUNICATION OF WORK METHODS.

PERSONAL AUTHOR: KONZ, STEPHAN A. ; AND OTHERS

DESCRIPTOR: *ASSEMBLY (MANUFACTURING); *AUDIOVISUAL COMMUNICATION; AUTOINSTRUCTIONAL METHODS; *EDUCATIONAL EXPERIMENTS; *INDIVIDUAL INSTRUCTION; *JOB SKILLS; PROGRAMED INSTRUCTION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.76

DESCRIPTIVE NOTE: 42P.

ISSUE: CUMREPT

ABSTRACT: THE ECONOMIC IMPLICATIONS OF PROGRAMED INSTRUCTION FOR WORK TRAINING UNDER CONTROLLED CONDITIONS WERE INVESTIGATED. "WORK TRAINING" REQUIRED THE MEMORIZATION OF PROCEDURES DURING THE TRAINING PERIOD. ONE EXPERIMENT UTILIZED 20 UNSKILLED FEMALES WHO COMPLETED A LAYERED ASSEMBLY BY REFERRING TO A TYPED LIST OR SLIDES OF THE ASSEMBLY WHICH WERE OPERATOR PACED. WITH CRITERIA OF TIME AND ERRORS, THE SLIDES WERE MORE EFFECTIVE. A SECOND EXPERIMENT UTILIZED 20 MALE COLLEGE STUDENTS WHO MADE A LAYERED ASSEMBLY BY REFERRING TO A TYPED LIST ON A SLIDE OR SLIDES OF THE ASSEMBLY, AGAIN OPERATOR PACED. THE ASSEMBLY SLIDES WERE MORE EFFECTIVE THAN THE LIST SLIDES. A THIRD EXPERIMENT UTILIZED 16 UNSKILLED FEMALES WHO MADE A LAYERED ASSEMBLY BY REFERRING TO MULTIPLE SLIDES PER LAYER, SINGLE SLIDES PER LAYER, A TYPED LIST IN A TYPEWRITER, OR TAPED AUDIO INSTRUCTIONS. ALL WERE OPERATOR PACED. BOTH SLIDE METHODS WERE ABOUT EQUALLY EFFECTIVE, AND BOTH WERE MORE EFFECTIVE THAN THE LIST OR AUDIO METHODS. A FOURTH EXPERIMENT UTILIZED 10 MALE COLLEGE STUDENTS WHO MADE A LAYERED ASSEMBLY BY FOLLOWING A TYPED LIST WITH THE FINGERTIP OF THE LEFT HAND, OR USING ONE SLIDE PER LAYER. THE SLIDES WERE MORE EFFECTIVE. A FIFTH EXPERIMENT UTILIZED 12 MALE COLLEGE STUDENTS WHO MADE A SIMULATED ELECTRICAL TERMINAL BOARD BY REFERRING TO A TYPED LIST, COLORED SLIDES OF THE ASSEMBLY, OR AUDIO TAPE RECORDING. ERRORS INCREASED FROM SLIDES TO LIST TO TAPE. IN ALL EXPERIMENTS PICTORIAL PRESENTATION WAS BEST FOR BOTH THE TIME AND ERROR CRITERIA. (EM)

REPORT NUMBER: SPEC-REP-58

INSTITUTION NAME: KANSAS STATE UNIV., MANHATTAN. ENGINEERING EXPERIMENTAL STATION.

ACCESSION NUMBER: EC015285

CLEARINGHOUSE ACCESSION NUMBER: VT003802

PUBLICATION DATE: DEC65

TITLE: THE "MACK" WORKER, THE IMPACT OF HIS JOB LOSS 2 1/2 YEARS LATER. AUTOMATION MANPOWER SERVICES, PROGRAM REPORT.

PERSONAL AUTHOR: INCIK, BERNARD P.

DESCRIPTOR: *EMPLOYMENT PROBLEMS; EMPLOYMENT PROGRAMS; EMPLOYMENT SERVICES; *FOLLOWUP STUDIES; INDIVIDUAL CHARACTERISTICS; MANUFACTURING INDUSTRY; OCCUPATIONAL SURVEYS; *UNEMPLOYED; WORK EXPERIENCE

IDENTIFIER: MACK TRUCK CORPORATION; NEW JERSEY; PLAINFIELD

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.40

DESCRIPTIVE NOTE: 33P.

ISSUE: CUMREPT

ABSTRACT: THE LONG TERM CONSEQUENCES OF A LARGE PLANT SHUTDOWN IN TERMS OF THE INDIVIDUALS INVOLVED AND CHARACTERISTICS SHOWN TO BE IMPORTANT INDICATORS OF THEIR REEMPLOYABILITY WERE DESCRIBED IN A 1962 STUDY. THIS FOLLOWUP STUDY CLARIFIED AND AMPLIFIED THE EARLIER FINDINGS TO SHOW MORE LONG TERM CONSEQUENCES. OF THE 3,100 PEOPLE LAID OFF, THE ORIGINAL STUDY HAD A SAMPLE OF 2,456 AND THE FOLLOWUP A MATCHED SAMPLE OF 1,117. GENERALLY, THE FOLLOWUP FINDINGS REINFORCED THOSE OF THE ORIGINAL STUDY AND REAFFIRMED ITS CONCLUSIONS AND RECOMMENDATIONS. CHARACTERISTICS DIFFERENTIATING THE EMPLOYED FROM THE UNEMPLOYED AT THE TIME OF BOTH STUDIES AND COMPARISON OF THESE CHARACTERISTICS IN BOTH STUDIES WERE REPORTED. IN 1962, 20.4 PERCENT, AND IN 1964, 23 PERCENT WERE UNEMPLOYED. OF THE 76 PERCENT WORKING IN 1964, 59 PERCENT WERE WORKING AT THE SAME JOB, 27 PERCENT HAD HAD TWO JOBS, AND 17 PERCENT HAD HAD THREE OR MORE JOBS, AND OF THOSE NOT WORKING, OVER 45 PERCENT HAD WORKED SINCE THE LAYOFF, AND 42.5 PERCENT HAD NOT WORKED. BOTH SAMPLES SHOWED HIGHER UNEMPLOYMENT AMONG THOSE WITH ONLY A GRAMMAR SCHOOL EDUCATION, AND BOTH INDICATED THAT HAVING TWO OR MORE DEPENDENTS AND OWNING A HOME WERE FACTORS RELATED TO BECOMING REEMPLOYED. A HIGHER PROPORTION OF REEMPLOYED WORKERS HAD TAKEN TESTS AND RECEIVED TRAINING THROUGH THE EMPLOYMENT SERVICE. REFERRAL TO NEW JOBS WAS THE KEY SERVICE OFFERED BY THE EMPLOYMENT SERVICE, AND THOUGH ITS RECORDS SHOWED THAT 20 PERCENT OF THE MACK POPULATION WERE REFERRED TO NEW JOBS, QUESTIONNAIRE RESPONSE SAID ONLY 5 PERCENT OBTAINED THEIR NEW JOBS THIS WAY. THE REEMPLOYED WORKERS TENDED TO BE WORKING AT LOWER PAYING JOBS REQUIRING USE OF FEWER OF THEIR SKILLS AND THE SAME OR LONGER HOURS. IT WAS RECOMMENDED THAT SUPPORT BE GIVEN THROUGH NECESSARY FUNDING AND STAFFING FOR A COMPLETE FOLLOW-THROUGH AND TESTING OF FINDINGS. (MM)

INSTITUTION NAME: BUREAU OF EMPLOYMENT SECURITY (DEPT. OF LABOR), WASHINGTON, D.C.; NEW JERSEY STATE EMPLOYMENT SERVICE, TRENTON.

ACCESSION NUMBER: ED015258

CLEARINGHOUSE ACCESSION NUMBER: VT002887

PUBLICATION DATE: 67

TITLE: JOB REDESIGN FOR OLDER WORKERS--CASE STUDIES.

PERSONAL AUTHOR: ROTHBERG, HERMAN J.

DESCRIPTOR: EMPLOYEES; EXPERIENCED LABORERS; *MANPOWER UTILIZATION; *MANUFACTURING INDUSTRY; *MIDDLE AGED; VOCATIONAL ADJUSTMENT; WORK SIMPLIFICATION

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.28

DESCRIPTIVE NOTE: 5P.

ISSUE: CUMREPT

ABSTRACT: INDUSTRIAL ESTABLISHMENTS SUCCESSFULLY USED METHODS OF JOB REDESIGN TO MAINTAIN THE EMPLOYMENT AND PRODUCTIVITY, AS WELL AS THE MORALE, OF AGING EMPLOYEES. EXAMPLES OF JOB REDESIGN WERE FOUND IN A WIDE VARIETY OF MANUFACTURING INDUSTRIES. CASE STUDIES WERE MADE IN PLANTS PRODUCING AIRCRAFT ENGINES, ALUMINUM FRAMING, BUILDING MATERIALS, CARPETS, COMPUTERS, COPPER PIPE FITTINGS, FOOTWEAR, HEAVY IRON PIPE, PRECISION INSTRUMENTS, AND PRINTED NOVELTIES. THE MOST PREVALENT REDESIGN METHOD WAS THE INFORMAL PRACTICE OF ACCOMMODATING THE DECLINING PHYSICAL CAPACITIES OF A SPECIFIC AGING WORKER OR GROUP OF WORKERS. JOB REDESIGN REVEALED SOME ADVANTAGES OVER THE PRACTICE OF JOB REASSIGNING FOR BOTH THE OLDER WORKER AND MANAGEMENT. IN SEVERAL CASES, A SUBSTANTIAL RISE IN OUTPUT PER MAN-HOUR OCCURRED. IN NONE OF THE CASES WAS PRODUCTIVITY ADVERSELY AFFECTED. THE FOUR CASE STUDIES SUMMARIZED SHOW JOB REDESIGN USING THE FRAMEWORK FOR FORMAL JOB PLACEMENT PROGRAMS WHICH CONTINUALLY EVALUATED EACH JOB AND EMPLOYEE IN TERMS OF DEMANDS AND CAPACITIES, UTILIZING MECHANICAL AIDS TO REPLACE MANUAL CONTROL, UTILIZING TECHNOLOGICAL CHANGE IN THE FORM OF SPECIALLY DESIGNED FORKLIFT TRUCKS, AND INVOLVING REALLOCATION OF DUTIES. THE FULL STUDY IS PRESENTED IN THE BUREAU OF LABOR STATISTICS PUBLICATION "JOB REDESIGN FOR OLDER WORKERS, TEN CASE STUDIES." THIS DOCUMENT APPEARED IN THE "MONTHLY LABOR REVIEW," JANUARY 1967. (HC)

REPORT NUMBER: REPRINT-2523

ACCESSION NUMBER: ED013931

CLEARINGHOUSE ACCESSION NUMBER: VT002411

PUBLICATION DATE: 65

TITLE: MACHINE TOOL OPERATOR--GENERAL, ENTRY, SUGGESTED GUIDE FOR A TRAINING COURSE.

PERSONAL AUTHOR: RONEY, MAURICE W. ; AND OTHERS

DESCRIPTOR: F ADULT VOCATIONAL EDUCATION; *CURRICULUM GUIDES; *MACHINE TOOL OPERATORS; POST SECONDARY EDUCATION; *TRADE AND INDUSTRIAL EDUCATION

IDENTIFIER: MDTA PROGRAMS

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$1.48

DESCRIPTIVE NOTE: 37P.

ISSUE: CUMREPT

ABSTRACT: F THE PURPOSE OF THIS CURRICULUM GUIDE IS TO ASSIST THE ADMINISTRATOR AND INSTRUCTOR IN PLANNING AND DEVELOPING MANPOWER DEVELOPMENT AND TRAINING PROGRAMS TO PREPARE MACHINE TOOL OPERATORS FOR ENTRY-LEVEL POSITIONS. THE COURSE OUTLINE PROVIDES UNITS IN -- (1) ORIENTATION, (2) BENCH WORK, (3) SHOP MATHEMATICS, (4) BLUEPRINT READING AND SKETCHING, (5) POWER SAWS, (6) DRILL PRESS, (7) ENGINE LATHE, (8) MILLING MACHINE, (9) SURFACE AND CYLINDRICAL GRINDERS, (10) SHAPER, AND (11) MASS PRODUCTION METHODS. EACH UNIT CONTAINS A TIME ALLOCATION, OBJECTIVES, UNIT OUTLINE, SUGGESTED ACTIVITIES, AND A LIST OF REFERENCES. INSTRUCTION IN RELATED THEORY IS TO BE CONCURRENT WITH THE DEVELOPMENT OF SKILLS IN THE SHOP. SUGGESTIONS FOR PLANNING THE LESSONS AND EVALUATING THE STUDENTS ARE INCLUDED. THE TRAINING SCHEDULE IS DEVELOPED FOR 1,080 HOURS OF TRAINING IN A PERIOD OF 27 WEEKS. THE INSTRUCTOR SHOULD HAVE BROAD EXPERIENCE AS A SKILLED MACHINE TOOL OPERATOR AND, PREFERABLY, EXPERIENCE AS A SUPERVISOR OF MACHINE TOOL OPERATORS. THE TRAINEE SHOULD HAVE A HIGH SCHOOL EDUCATION OR EQUIVALENT WITH A BACKGROUND IN MATHEMATICS AND SHOULD BE OF AVERAGE PHYSICAL CONDITION AND HEALTH WITH GOOD VISION. SUPPLEMENTARY MATERIALS INCLUDE A LAYOUT OF A TRAINING FACILITY AND SUGGESTED MACHINES, TOOLS, EQUIPMENT, AND EXPENDABLE SUPPLIES FOR A CLASS OF 20 PERSONS. SUGGESTED TEXTBOOKS, REFERENCES, AND FILMS ARE LISTED. (HC)

INSTITUTION NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBER: ED012767

CLEARINGHOUSE ACCESSION NUMBER: VT000494

PUBLICATION DATE: AUG65

TITLE: AGRICULTURAL MACHINERY ASSEMBLY AND LUBRICATION. AGRICULTURAL MACHINERY--SERVICE OCCUPATIONS, MODULE NUMBER 7.

DESCRIPTOR: *AGRICULTURAL EDUCATION; *AGRICULTURAL MACHINERY; *AGRICULTURAL MACHINERY OCCUPATIONS; ASSEMBLY (MANUFACTURING); BIBLIOGRAPHIES; MAINTENANCE; POST SECONDARY EDUCATION; *TEACHING GUIDES; UNITS OF STUDY (SUBJECT FIELDS)

IDENTIFIER: COLUMBUS

EDRS PRICE: EDRS PRICE MF-$0.25 HC-$0.72

DESCRIPTIVE NOTE: 18P.

ISSUE: CUMREPT

ABSTRACT: D ONE OF A SERIES DESIGNED TO HELP TEACHERS PREPARE POSTSECONDARY STUDENTS FOR THE AGRICULTURAL MACHINERY SERVICE OCCUPATIONS AS PARTS MEN, MECHANICS, MECHANIC'S HELPERS, AND SERVICE SUPERVISORS, THIS GUIDE AIMS TO DEVELOP STUDENT UNDERSTANDING OF THE FUNCTIONS OF LUBRICANTS FOR AGRICULTURAL MACHINERY, SKILL IN THEIR SELECTION, AND UNDERSTANDING OF MACHINERY ASSEMBLY AND ADJUSTMENT. IT WAS DEVELOPED BY A NATIONAL TASK FORCE ON THE BASIS OF RESEARCH FROM STATE STUDIES. SUGGESTIONS FOR INTRODUCING THE MODULE ARE GIVEN. THE UNITS ARE ORGANIZED INTO SUGGESTED SUBJECT-MATTER CONTENT, TEACHING-LEARNING ACTIVITIES, INSTRUCTIONAL MATERIALS, REFERENCES, AND OCCUPATIONAL EXPERIENCES. SUGGESTED TIME ALLOTMENT IS 9 HOURS OF CLASS INSTRUCTION, 129 HOURS OF LABORATORY EXPERIENCE, AND 60 HOURS OF OCCUPATIONAL EXPERIENCE. TEACHERS SHOULD HAVE EXPERIENCE IN AGRICULTURAL MACHINERY. STUDENTS SHOULD HAVE MECHANICAL APTITUDE AND AN OCCUPATIONAL GOAL IN AGRICULTURAL MACHINERY. THIS DOCUMENT IS ALSO AVAILABLE FOR A LIMITED PERIOD AS PART OF A SET (VT 000 488 THROUGH VT 000 504) FROM THE CENTER FOR VOCATIONAL AND TECHNICAL EDUCATION, THE OHIO STATE UNIVERSITY, 980 KINNEAR ROAD, COLUMBUS, OHIO 43212, FOR $7.50 PER SET. (JM)

REPORT NUMBER: AGDEX-740-017-7

INSTITUTION NAME: + OHIO STATE UNIV., COLUMBUS. CENTER FOR VOCATIONAL AND TECHNICAL EDUCATION.

ACCESSION NUMBER: ED060072

CLEARINGHOUSE ACCESSION NUMBER: TM001222

PUBLICATION DATE: MAR 52

TITLE: TURRET LATHE OPERATOR 604.782; DRILL PRESS OPERATOR 606.782; PUNCH PRESS OPERATOR I 615.782 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: E *APTITUDE TESTS; *CUTTING SCORES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; *MACHINE TOOL OPERATORS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: , DRILL PRESS OPERATOR; GATB; *GENERAL APTITUDE TEST BATTERY; PUNCH PRESS OPERATOR; TURRET LATHE OPERATOR

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 13P.

ISSUE: RIEJUN72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-B-262; TR-S-32

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: EDC59385

CLEARINGHOUSE ACCESSION NUMBER: VT014701

PUBLICATION DATE: SEP 69

TITLE: CURRICULUM GUIDE FOR METALS.

DESCRIPTOR: AUTO BODY REPAIRMEN; BEHAVIORAL OBJECTIVES; *CAREER EDUCATION; CLUSTER ANALYSIS; COMMUNICATIONS; *CURRICULUM GUIDES; EQUIPMENT; INSTRUCTIONAL MATERIALS; LEARNING ACTIVITIES; MACHINISTS; *METALS; *OCCUPATIONAL CLUSTERS; OCCUPATIONAL GUIDANCE; *OCCUPATIONAL INFORMATION; REFERENCE MATERIALS; SAFETY EDUCATION; SECONDARY EDUCATION; SHEET METAL WORKERS; WELDERS

IDENTIFIER: THE OREGON WAY

EDRS PRICE: DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 181P.

ISSUE: RIEMAY72

ABSTRACT: DEVELOPED THROUGH A COOPERATIVE EFFORT BY INDUSTRY AND EDUCATION, THIS CURRICULUM GUIDE OUTLINES THE BASIC SKILLS AND KNOWLEDGE NECESSARY FOR ENTRY-LEVEL COMPETENCIES IN THE BROAD FIELD OF METALS, OR FOR ENTRANCE INTO AN APPRENTICESHIP, POST-HIGH SCHOOL, OR UNIVERSITY PROGRAM. THIS GUIDE IS ONE OF SEVERAL DEVELOPED FOR OREGON'S NEW APPROACH TO SECONDARY EDUCATION CALLED "THE OREGON WAY." THE PROGRAM IS BASED ON THE ASSUMPTIONS THAT SECONDARY SCHOOLS SHOULD BE PREPARATORY FOR ALL STUDENTS, AND THAT A PREPARATORY PROGRAM TIES THE CURRICULUM TO THE LIVES OF STUDENTS. AS A RESULT OF ANALYZING 1,023 SEPARATE OCCUPATIONS, FIVE KEY OCCUPATIONAL CLUSTERS FOR METALS WERE DERIVED: (1) FOUNDRY WORKER, (2) SHEET METAL WORKER, (3) AUTO BODY REPAIRMAN, (4) WELDER, AND (5) MACHINIST. FOLLOWING SOME OCCUPATIONAL AND INSTRUCTIONAL DATA AND CURRICULUM SUGGESTIONS, COURSE OUTLINES ARE PROVIDED FOR: (1) HOT METALS, (2) MACHINE PROCESSES, (3) METAL FABRICATION, AND (4) COMMUNICATION. REQUIRED KNOWLEDGE AND SKILLS, BEHAVIORAL OBJECTIVES, AND SUGGESTED LEARNING ACTIVITIES ARE GIVEN FOR EACH UNIT. INFORMATION DATED TO SAFETY AND MAINTENANCE, AND A LIST OF RELATED TOOLS, EQUIPMENT, AND FURNISHINGS ARE APPENDED. (GEB)

AVAILABILITY: OREGON BOARD OF EDUCATION, 942 LANCASTER DRIVE, NE, SALEM, OREGON 97310 ($2.50)

INSTITUTION NAME: * OREGON STATE BOARD OF EDUCATION, SALEM. DIV. OF COMMUNITY COLLEGES AND CAREER EDUCATION.

ACCESSION NUMBER: EDC59304

CLEARINGHOUSE ACCESSION NUMBER: TM001197

PUBLICATION DATE: NOV 54

TITLE: TABLE WORKER 8-53.01 -- TECHNICAL REPORT ON STANDARDIZATION ON THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: 6 *APTITUDE TESTS; *ASSEMBLY (MANUFACTURING); EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: GATB; *GENERAL APTITUDE TEST BATTERY; TABLE WORKER

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 11P.

ISSUE: RIEMAY72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-28

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED059298

CLEARINGHOUSE ACCESSION NUMBER: TM001190

PUBLICATION DATE: NOV 54

TITLE: ELECTRIC MOTOR ASSEMBLER 6-99.166 -- TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: G *APTITUDE TESTS; ASSEMBLY (MANUFACTURING); *ELECTRIC MOTORS; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: ELECTRIC MOTOR ASSEMBLER; GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 7P.

ISSUE: RIEMAY72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-21

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: EC059291

CLEARINGHOUSE ACCESSION NUMBER: TM001182

PUBLICATION DATE: JUN 70

TITLE: GASOLINE-ENGINE ASSEMBLER (ENGINE & TURBINE) 806.781; INTERNAL-COMBUSTION-ENGINE-ASSEMBLER (ENGINE & TURBINE) 806.781; OUTBOARD-MOTOR ASSEMBLER (ENGINE & TURBINE) 806.781--TECHNICAL REPORT ON DEVELOPMENT OF USTES APTITUDE TEST BATTERY.

DESCRIPTOR: *APTITUDE TESTS; *ASSEMBLY (MANUFACTURING); ENGINES; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: C GASOLINE ENGINE ASSEMBLER; GATB; *GENERAL APTITUDE TEST BATTERY; INTERNAL COMBUSTION ENGINE ASSEMBLER; OUTBOARD MOTOR ASSEMBLER

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 14P.

ISSUE: RIEMAY72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-13R

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED059290

CLEARINGHOUSE ACCESSION NUMBER: TM001181

PUBLICATION DATE: JUN 70

TITLE: MACHINIST (MACH. SHOP,) I 600.280--TECHNICAL REPORT ON DEVELOPMENT OF USTES APTITUDE TEST BATTERY.

DESCRIPTOR: Y *APTITUDE TESTS; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; *MACHINISTS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 16P.

ISSUE: RIEMAY72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-12R

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED059287

CLEARINGHOUSE ACCESSION NUMBER: TM001178

PUBLICATION DATE: JAN 67

TITLE: | MOUNTER (ELECTRONICS) I 726.887--DEVELOPMENT OF USES APTITUDE TEST BATTERY.

DESCRIPTOR: W *APTITUDE TESTS; ASSEMBLY (MANUFACTURING); ELECTRICAL OCCUPATIONS; *ELECTRONIC TECHNICIANS; EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: ELECTRONICS MOUNTER; GATB; *GENERAL APTITUDE TEST BATTERY

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 15P.

ISSUE: RIEMAY72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERIRY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

REPORT NUMBER: TR-S-8

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED059283

CLEARINGHOUSE ACCESSION NUMBER: TM001174

PUBLICATION DATE: OCT 54

TITLE: ẅ LABORER 8-53.01; FILLING-MACHINE OPERATOR II 7-68.015; LABELER, HAND 9-68.20; LABORER, CONTAINER CAPPING 9-68.10; PACKER II 9-68.30; STAMPER II 9-68.20--TECHNICAL REPORT ON STANDARDIZATION OF THE GENERAL APTITUDE TEST BATTERY.

DESCRIPTOR: *APTITUDE TESTS; *ASSEMBLY (MANUFACTURING); EVALUATION CRITERIA; JOB APPLICANTS; *JOB SKILLS; LABORERS; NORMS; OCCUPATIONAL GUIDANCE; *PERSONNEL EVALUATION; TEST RELIABILITY; TEST VALIDITY

IDENTIFIER: ā CONTAINER CAPPING LABORER; FILLING MACHINE OPERATOR; GATB; *GENERAL APTITUDE TEST BATTERY; HAND LABELER; PACKER; STAMPER

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 8P.; REVISED

ISSUE: RIEMAY72

ABSTRACT: THE UNITED STATES TRAINING AND EMPLOYMENT SERVICE GENERAL APTITUDE TEST BATTERY (GATB), FIRST PUBLISHED IN 1947, HAS BEEN INCLUDED IN A CONTINUING PROGRAM OF RESEARCH TO VALIDATE THE TESTS AGAINST SUCCESS IN MANY DIFFERENT OCCUPATIONS. THE GATB CONSISTS OF 12 TESTS WHICH MEASURE NINE APTITUDES: GENERAL LEARNING ABILITY; VERBAL APTITUDE; NUMERICAL APTITUDE; SPATIAL APTITUDE; FORM PERCEPTION; CLERICAL PERCEPTION; MOTOR COORDINATION; FINGER DEXTERITY; AND MANUAL DEXTERITY. THE APTITUDE SCORES ARE STANDARD SCORES WITH 100 AS THE AVERAGE FOR THE GENERAL WORKING POPULATION, AND A STANDARD DEVIATION OF 20. OCCUPATIONAL NORMS ARE ESTABLISHED IN TERMS OF MINIMUM QUALIFYING SCORES FOR EACH OF THE SIGNIFICANT APTITUDE MEASURES WHICH, WHEN COMBINED, PREDICT JOB PERFORMANCE. CUTTING SCORES ARE SET ONLY FOR THOSE APTITUDES WHICH AID IN PREDICTING THE PERFORMANCE OF THE JOB DUTIES OF THE EXPERIMENTAL SAMPLE. THE GATB NORMS DESCRIBED ARE APPROPRIATE ONLY FOR JOBS WITH CONTENT SIMILAR TO THAT SHOWN IN THE JOB DESCRIPTION PRESENTED IN THIS REPORT. A DESCRIPTION OF THE VALIDATION SAMPLE IS INCLUDED. (AG)

INSTITUTION NAME: MANPOWER ADMINISTRATION (DOL), WASHINGTON, D.C. U.S. TRAINING AND EMPLOYMENT SERVICE.

ACCESSION NUMBER: ED058396

CLEARINGHOUSE ACCESSION NUMBER: VT014240

PUBLICATION DATE: 71

TITLE: THE WORLD OF MANUFACTURING. INDUSTRIAL ARTS CURRICULUM PROJECT.

DESCRIPTOR: *CAREER EDUCATION; *CONCEPT TEACHING; FUNDAMENTAL CONCEPTS; *INDUSTRIAL ARTS; INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; MANUFACTURING INDUSTRY; OCCUPATIONAL GUIDANCE; OCCUPATIONAL INFORMATION; RESOURCE MATERIALS; SECONDARY GRADES; STUDY GUIDES; *TEXTBOOKS

IDENTIFIER: IACP; INDUSTRIAL ARTS CURRICULUM PROJECT; WORLD OF MANUFACTURING

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 540P.; FOURTH EDITION

ISSUE: RIEAPR72

ABSTRACT: ¬ THIS TEXTBOOK FOR JUNIOR HIGH SCHOOL STUDENTS ENCOMPASSES CONCEPTS FOUND IN MANUFACTURING, AND TOGETHER WITH A TEACHER'S GUIDE (VT 014 238) AND LABORATORY MANUAL (VT 014 239) CONSTITUTES THE SECOND PART OF A 2-YEAR INTEGRATED PROGRAM IN INDUSTRIAL TECHNOLOGY. THIS AND THE FIRST YEAR COURSE IN CONSTRUCTION TECHNOLOGY, WERE DEVELOPED UNDER CONTRACT TO THE U.S. OFFICE OF EDUCATION. THE MATERIAL WAS WRITTEN BY PROFESSIONALS IN THE MANUFACTURING FIELD, AND IS INTENDED TO GIVE FIRSTHAND KNOWLEDGE ABOUT THE MAN-MADE WORLD AND ENABLE STUDENTS TO VIEW THEIR WORLD WITH GREATER UNDERSTANDING, APPRECIATION, AND INSIGHT. SAMPLE TOPICS INCLUDED IN THE 82 ARE: (1) MANUFACTURING AND THE ECONOMIC SYSTEM, (2) BUILDING THE PRODUCTION PROTOTYPE, (3) EMPLOYMENT AND OCCUPATIONS IN MANUFACTURING, (4) CONVERTING RAW MATERIALS TO INDUSTRIAL MATERIALS, (5) MAKING ASSEMBLIES OR FINISHED PARTS, (6) LOCATING THE PLANT AND SECURING INPUTS, AND (7) ARRANGING FOR DISTRIBUTION AND SALES. THERE IS EXTENSIVE USE OF PICTURES AND DRAWINGS FOR ILLUSTRATIONS. RELATED DOCUMENTS ARE AVAILABLE AS VT 014 088 AND VT 014 241-VT 014 244. (GEB)

AVAILABILITY: MCKNIGHT AND MCKNIGHT PUB. CO., ROUTE 66, BLOOMINGTON, ILL. 61701 ($7.96 LIST PRICE)

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS. RESEARCH FOUNDATION.

SPONSORING AGENCY NAME: DOFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBER: EC058395

CLEARINGHOUSE ACCESSION NUMBER: VT014239

PUBLICATION DATE: 71

TITLE: THE WORLD OF MANUFACTURING, LABORATORY MANUAL. INDUSTRIAL ARTS CURRICULUM PROJECT.

DESCRIPTOR: *CAREER EDUCATION; CONCEPT TEACHING; *INDUSTRIAL ARTS; INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *MANUFACTURING INDUSTRY; OCCUPATIONAL GUIDANCE; OCCUPATIONAL INFORMATION; SECONDARY GRADES

IDENTIFIER: IACP; INDUSTRIAL ARTS CURRICULUM PROJECT; WORLD OF CONSTRUCTION

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 371P.; FOURTH EDITION

ISSUE: RIEAPR72

ABSTRACT: 3 THIS LABORATORY MANUAL FOR JUNIOR HIGH SCHOOL STUDENTS ENCOMPASSES CONCEPTS FOUND IN MANUFACTURING. DEVELOPED UNDER A CONTRACT FROM THE U.S. OFFICE OF EDUCATION, IT IS THE SECOND PART OF A 2-YEAR INTEGRATED PROGRAM, AND TOGETHER WITH THE FIRST COURSE IN CONSTRUCTION TECHNOLOGY, PROVIDES AN INTRODUCTORY STUDY OF INDUSTRIAL TECHNOLOGY. THIS MANUAL IS DESIGNED FOR USE WITH A TEXTBOOK (VT 014 240) AND TEACHER'S GUIDE (VT 014 238) TO PROVIDE A COMPLETE 1-YEAR COURSE. EACH OF THE 91 ACTIVITIES INCLUDES A STATED OBJECTIVE AND PROCEDURES FOR CARRYING OUT THE ACTIVITY WITH DRAWINGS, CHARTS, AND PICTURES PROVIDED WHERE NECESSARY. SAMPLE TOPICS INCLUDE: (1) MANUFACTURING AND THE ECONOMIC SYSTEM, (2) BUILDING THE PRODUCTION PROTOTYPE, (3) ORGANIZATION, OWNERSHIP, AND PROFIT, (4) MANUFACTURING PRODUCTION TECHNOLOGY, (5) COMBINING SUBASSEMBLIES, (6) DESIGNING AND ENGINEERING THE PRODUCT, (7) ARRANGING FOR DISTRIBUTION AND SALES. RELATED DOCUMENTS ARE AVAILABLE AS VT 014 088 AND VT 014 241-VT 014 244. (GEB)

AVAILABILITY: MCKNIGHT AND MCKNIGHT PUB. CO., ROUTE 66, BLOOMINGTON, ILL. 61701 ($3.96 LIST PRICE)

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS. RESEARCH FOUNDATION.

SPONSORING AGENCY NAME: OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBER: ED058394

CLEARINGHOUSE ACCESSION NUMBER: VT014238

PUBLICATION DATE: 71

TITLE: THE WORLD OF MANUFACTURING, TEACHER'S GUIDE. INDUSTRIAL ARTS CURRICULUM PROJECT.

DESCRIPTOR: *CAREER EDUCATION; CONCEPT TEACHING; CURRICULUM GUIDES; *INDUSTRIAL ARTS; INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; LESSON PLANS; *MANUFACTURING INDUSTRY; OCCUPATIONAL GUIDANCE; OCCUPATIONAL INFORMATION; RESOURCE MATERIALS; SECONDARY GRADES; *TEACHING GUIDES

IDENTIFIER: IACP; INDUSTRIAL ARTS CURRICULUM PROJECT; WORLD OF MANUFACTURING

EDRS PRICE: EDRS PRICE MF-$0.65 HC NOT AVAILABLE FROM EDRS.

DESCRIPTIVE NOTE: 373P.; FOURTH EDITION

ISSUE: RIEAPR72

ABSTRACT: THIS TEACHER'S GUIDE ENCOMPASSING THE CONCEPTS FOUND IN THE WORLD OF MANUFACTURING IS DESIGNED FOR JUNIOR HIGH SCHOOL STUDENTS TO BE USED AS A TOTAL EDUCATIONAL PACKAGE WITH THE TEXTBOOK (VT 014 240) AND LABORATORY MANUAL (VT 014 239). AS THE SECOND PART OF A 2-YEAR INTEGRATED PROGRAM IN WHICH THE FIRST YEAR CONCERNS CONSTRUCTION, IT IS DESIGNED TO PREPARE STUDENTS FOR ENLIGHTENED CITIZENSHIP AND TO PROVIDE EDUCATIONAL-OCCUPATIONAL GUIDANCE FOR THE WORLD OF WORK. THIS PROGRAM WAS DESIGNED TO BE USED 45 MINUTES PER DAY FOR 185 DAYS, WITH 20 OPTIONAL ASSIGNMENTS FOR FLEXIBILITY. EACH OF THE 185 ASSIGNMENT UNITS INCLUDES OBJECTIVES, OVERVIEW, SUGGESTIONS FOR PRESENTATION AND DISCUSSION, HOMEWORK, AND TESTS. ASSIGNMENTS COVER: (1) AN OVERVIEW OF MANUFACTURING TECHNOLOGY, (2) ANALYSIS OF THE CONCEPTS OF RESEARCHING, DESIGNING, AND ENGINEERING AS THEY APPLY TO PRODUCTS AND PROCESSES, (3) ANALYSIS OF PRODUCTION PRACTICES, AND (4) PERSONNEL POLICIES. A LIST OF TEACHING AIDS AND SPECIAL EQUIPMENT, A LIST OF EQUIPMENT FOR STUDENTS, AND A LIST OF EXPENDABLE SUPPLIES ARE APPENDED. THE GUIDE IS IN THREE RING BINDER FORMAT FOR EASE IN USE. RELATED DOCUMENTS ARE AVAILABLE AS VT 014 088, AND VT 014 241-VT 014 244. (GEB)

AVAILABILITY: MCKNIGHT AND MCKNIGHT PUB. CO., ROUTE 66, BLOOMINGTON, ILL. 61701 ($24.00 LIST PRICE)

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS. RESEARCH FOUNDATION.

SPONSORING AGENCY NAME: DOFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.

ACCESSION NUMBER: EC057250

CLEARINGHOUSE ACCESSION NUMBER: VT014417

PUBLICATION DATE: AUG 71

TITLE: * AN INSTRUCTIONAL PROGRAM FOR TRAINING NONDESTRUCTIVE TESTING AND INSPECTION TECHNICIANS.

PERSONAL AUTHOR: STOKES, VERNON L.

DESCRIPTOR: BIBLIOGRAPHIES; COMMUNITY COLLEGES; *CURRICULUM GUIDES; *INDUSTRIAL EDUCATION; INSPECTION; INSTRUCTIONAL MATERIALS; INSTRUCTIONAL PROGRAMS; JUNIOR COLLEGES; MANUFACTURING INDUSTRY; *PRODUCTION TECHNICIANS; PROGRAM CONTENT; RESOURCE MATERIALS; *SUPPLEMENTARY TEXTBOOKS; *TECHNICAL EDUCATION

IDENTIFIER: NONDESTRUCTIVE TESTING

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 199P.

ISSUE: RIEMAR72

ABSTRACT: THIS DOCUMENT, THE SECOND PORTION OF A TWO-PART STUDY, IS DESIGNED TO PROVIDE A GUIDE FOR THE FORMAL TRAINING OF TECHNICIANS FOR NONDESTRUCTIVE TESTING AND INSPECTION. INFORMATION IN THE GUIDE IS BASED ON RESULTS OF THE INDUSTRIAL SURVEY DISCUSSED IN PART I. THE SUBJECT MATTER IS INTENDED TO BE BOTH FLEXIBLE AND COMPREHENSIVE, AND INSTRUCTIONAL GOALS MUST BE FOCUSED ON ATTAINMENT OF A HIGH LEVEL OF PROFICIENCY IN EACH TECHNICIAN. THIS DOCUMENT CONTAINS AN INTRODUCTION CONSISTING OF CONSIDERATIONS FOR INSTRUCTION, SIGNIFICANCE OF THE MANUFACTURING PROCESS, RESPONSIBILITY OF THE MANUFACTURER AND SERVICE COMPANY, AND EDUCATION OBJECTIVES. ALSO, THERE ARE CHAPTERS ON: (1) THE ORIGIN AND SIGNIFICANCE OF DISCONTINUITIES, (2) LIQUID PENETRANT METHODS, (3) MAGNETIC PARTICLE TESTING, (4) EDDY CURRENT TESTING, (5) ULTRASONIC TESTING, (6) RADIOGRAPHIC TESTING, (7) OTHER NONDESTRUCTIVE TESTING METHODS, AND (8) CURRICULUM. SAMPLE ILLUSTRATIONS AND RESOURCE MATERIALS ARE APPENDED, AND A BIBLIOGRAPHY IS INCLUDED. PART I IS AVAILABLE AS VT 014 416. (GEB)

INSTITUTION NAME: NORTH TEXAS STATE UNIV., DENTON.; TEXAS EDUCATION AGENCY, AUSTIN. DEPT. OF OCCUPATIONAL AND TECHNICAL EDUCATION.

ACCESSION NUMBER: EC057236

CLEARINGHOUSE ACCESSION NUMBER: VT014357

PUBLICATION DATE: MAR 71

TITLE: & "BOOKS" ANNOTATED BY AMERICAN COUNCIL FOR ELEMENTARY SCHOOL INDUSTRIAL ARTS.

PERSONAL AUTHOR: STUNARD, E. ARTHUR, ED.

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *BOOKS; COMMUNICATIONS; CONSTRUCTION (PROCESS); *ELEMENTARY GRADES; GRAPHIC ARTS; *INDUSTRIAL ARTS; INDUSTRY; MANUFACTURING; SCIENCE ACTIVITIES; TRANSPORTATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$9.87

DESCRIPTIVE NOTE: 208P.

ISSUE: RIEMAR72

ABSTRACT: : PREPARED BY THE AMERICAN COUNCIL FOR ELEMENTARY SCHOOL INDUSTRIAL ARTS, (ACESIA), THIS ANNOTATED BIBLIOGRAPHY OF BOOKS IS A RESULT OF THEIR COMMITMENT TO PUBLISH MATERIALS THAT MIGHT BE USEFUL TO THE PROFESSION. FOR USE IN ELEMENTARY SCHOOL INDUSTRIAL ARTS ACTIVITIES, THIS LIST WAS COMPILED OVER A PERIOD OF YEARS WITH THE HELP OF MANY COLLEAGUES. THE COUNCIL IS ATTEMPTING TO DEFINE, STIMULATE, AND STRIVE FOR THE IDEAL FORM OF INDUSTRIAL ARTS EDUCATION IN THE ELEMENTARY GRADES. THE CONTENTS OF THIS PUBLICATION ARE DIVIDED INTO 54 AREAS. SAMPLES ARE: (1) AUTOMATION, (2) COMMUNICATION, (3) ELECTRICITY, (4) GLASS, (5) INDUSTRY, (6) MAGNETS, (7) PLASTICS, (8) SOUND, (9) TIME AND CLOCKS, (10) WHEELS, AND (11) TRANSPORTATION. EACH ITEM IS RECOMMENDED FOR USE AT PRIMARY, INTERMEDIATE, UPPER GRADES, AND TEACHER REFERENCE LEVEL. DETAILS REGARDING MEMBERSHIP IN ACESIA ARE GIVEN. (GEB)

AVAILABILITY: : AMERICAN INDUSTRIAL ARTS ASSOCIATION, 1201 SIXTEENTH STREET, N.W., WASHINGTON, D.C. 20036 (STOCK NO. 641-21338, $2.00)

INSTITUTION NAME: < AMERICAN COUNCIL FOR ELEMENTARY SCHOOL INDUSTRIAL ARTS, WASHINGTON, D.C.

ACCESSION NUMBER: ED056262

CLEARINGHOUSE ACCESSION NUMBER: AC010847

PUBLICATION DATE: 71

TITLE: HUMAN RESOURCES FOR INDUSTRIAL DEVELOPMENT. SOME ASPECTS OF POLICY AND PLANNING.

DESCRIPTOR: 6 *DEVELOPING NATIONS; EMPLOYMENT OPPORTUNITIES; *INDUSTRIALIZATION; *INDUSTRIAL TRAINING; LABOR FORCE; *MANPOWER UTILIZATION; MANUFACTURING INDUSTRY; ORGANIZATION SIZE (GROUPS); SOCIAL PROBLEMS; *TECHNOLOGICAL ADVANCEMENT; VOCATIONAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$9.87

DESCRIPTIVE NOTE: 239P.

ISSUE: RIEMAR72

ABSTRACT: THIS BOOK ANALYZES SOME OF THE MAJOR MANPOWER AND SOCIAL PROBLEMS ENCOUNTERED BY DEVELOPING COUNTRIES DURING INDUSTRIALIZATION. THE FIRST PART OF THE BOOK EXAMINES THE SKILL REQUIREMENTS FOR INDUSTRIAL DEVELOPMENT IN LOW-INCOME COUNTRIES, THE AIMS AND CHARACTERISTICS OF INDUSTRIAL MANPOWER TRAINING PROGRAMS AT THE NATIONAL LEVEL, THE MEASURES NEEDED TO ENSURE A MORE EFFECTIVE USE OF MANPOWER, AND VOCATIONAL AND TECHNICAL TRAINING FOR SMALL-SCALE INDUSTRIAL ENTERPRISES AND THEIR PERSONNEL. THE SECOND PART, AFTER ADVOCATING THE DEVELOPMENT OF NEW EMPLOYMENT OPPORTUNITIES AND THE ACHIEVEMENT OF FULL PRODUCTIVE EMPLOYMENT FOR THE WHOLE OF THE LABOR FORCE IN THE INDUSTRIAL SECTOR, BRINGS OUT THE IMPORTANCE OF CHOOSING THE APPROPRIATE FORM OF INDUSTRIAL TECHNOLOGY TO ATTAIN THESE OBJECTIVES. THE MAIN CONSIDERATIONS THAT AFFECT ANY WAGE POLICY DESIGNED TO PROMOTE INDUSTRIALIZATION ARE LISTED, AND THE AIMS AND NATURE OF SOCIAL PARTICIPATION SCHEMES THROUGH WHICH WORKERS' AND EMPLOYERS' ORGANIZATIONS MAY CONTRIBUTE ACTIVELY TO THE ELABORATION AND APPLICATION OF INDUSTRIALIZATION PROGRAMS ARE EXAMINED. (AUTHOR/DB)

REPORT NUMBER: R-71

INSTITUTION NAME: INTERNATIONAL LABOUR OFFICE, GENEVA (SWITZERLAND).

ACCESSION NUMBER: EC055256

CLEARINGHOUSE ACCESSION NUMBER: AC010574

TITLE: RECRUITMENT SELECTION AND TRAINING.

DESCRIPTOR: CLOTHING; *COST EFFECTIVENESS; *INDUSTRIAL TRAINING; *MANUFACTURING INDUSTRY; *PERSONNEL SELECTION; *RECRUITMENT

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 41P.; A REPORT BY THE MANPOWER WORKING PARTY OF THE ECONOMIC DEVELOPMENT COMMITTEE FOR THE CLOTHING INDUSTRY

ISSUE: RIEFEB72

ABSTRACT: THIS BOOKLET OUTLINES FACTS THAT SHOULD BE CONSIDERED DURING A NEW EMPLOYEE'S INITIAL WEEKS WITH A FIRM, IN THIS CASE A CLOTHING MANUFACTURER; PARTICULAR EMPHASIS IS PLACED ON THE PRINCIPLES OF GOOD SELECTION AND TRAINING. VARIOUS SOURCES ARE ALSO GIVEN FROM WHICH TO GET HELP IN IMPLEMENTING THE BASIC PRINCIPLES DESCRIBED. THE FOLLOWING POINTS ARE MADE: (1) RECRUITMENT INVOLVES ADVERTISING A FIRM'S ADVANTAGEOUS ASPECTS; (2) GOOD SELECTION TECHNIQUES ARE IMPORTANT AS SHORT-TERM EMPLOYEES ARE EXPENSIVE; (3) OBJECTIVES OF TRAINING INCLUDE REDUCING THE TIME TAKEN TO LEARN A NEW JOB, ACHIEVING, MAINTAINING, OR IMPROVING QUALITY STANDARDS, AND INTRODUCING OR STANDARDIZING CORRECT METHODS. FOLLOWING GOOD PRACTICES IN SELECTION AND TRAINING WILL REDUCE AN EMPLOYER'S OVERALL COST PER EMPLOYEE. (CK)

AVAILABILITY: NATIONAL ECONOMIC DEVELOPMENT OFFICE, MILLBANK TOWER, MILLBANK, LONDON SW1 ENGLAND (NO PRICE QUOTED)

INSTITUTION NAME: NATIONAL ECONOMIC DEVELOPMENT OFFICE, LONDON (ENGLAND).

ACCESSION NUMBER: ED054389

CLEARINGHOUSE ACCESSION NUMBER: VT014088

PUBLICATION DATE: 31 AUG 71

TITLE: K A JUNIOR HIGH SCHOOL INDUSTRIAL TECHNOLOGY CURRICULUM PROJECT: A FINAL EVALUATION OF THE INDUSTRIAL ARTS CURRICULUM PROJECT (IACP), 1965-1971.

PERSONAL AUTHOR: BUFFER, JAMES J.; AND OTHERS

DESCRIPTOR: CONSTRUCTION INDUSTRY; *CURRICULUM DEVELOPMENT; CURRICULUM EVALUATION; EDUCATIONAL INNOVATION; *INDUSTRIAL ARTS; INDUSTRIAL TECHNOLOGY; *INSTRUCTIONAL MATERIALS; JUNIOR HIGH SCHOOLS; MANUFACTURING INDUSTRY; *PROGRAM EVALUATION; PROJECT TRAINING METHODS; *RESEARCH PROJECTS; SCHOOL INDUSTRY RELATIONSHIP

IDENTIFIER: IACP; *INDUSTRIAL ARTS CURRICULUM PROJECT

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$13.16

DESCRIPTIVE NOTE: 395P.

ISSUE: RIEDEC71

ABSTRACT: Q THE OBJECTIVE OF THE INDUSTRIAL ARTS CURRICULUM PROJECT (IACP) WAS TO DEVELOP, REFINE, AND INSTITUTIONALIZE A NEW AND RELEVANT 2-YEAR JUNIOR HIGH INDUSTRIAL ARTS PROGRAM. THE STUDY FOCUSED ON "INDUSTRIAL TECHNOLOGY," THE KNOWLEDGE OF MANAGEMENT, PRODUCTION, AND PERSONNEL PRACTICES USED BY MEN TO PRODUCE GOODS TO SATISFY THEIR NEEDS THROUGH CONSTRUCTION AND MANUFACTURING ACTIVITIES. AS A RESULT OF A 6 YEAR PROGRAM OF INTENSIVE RESEARCH AND DEVELOPMENT, FIELD TESTING, EVALUATIONS, AND REVISIONS, TWO 1-YEAR COURSES WERE DEVELOPED. THESE COURSES ARE ENTITLED "THE WORLD OF CONSTRUCTION" AND "THE WORLD OF MANUFACTURING." AND THE INSTRUCTIONAL PACKAGES FOR EACH INCLUDE: TEXTBOOKS, LABORATORY MANUALS, TEACHER'S GUIDES, ACHIEVEMENT TESTS, RELATED HARDWARE, AND AUDIO-VISUAL MATERIALS. THE MATERIALS WERE FIELD TESTED OVER A 4-YEAR PERIOD WITH 20,000 STUDENTS IN 13 STATES AND WERE COORDINATED THROUGH 124 HEADQUARTERS AND FIELD STAFF. WORKSHOPS HAVE BEEN CONDUCTED IN 45 COLLEGES AND UNIVERSITIES FOR PREPARING TEACHERS TO ADOPT OR ADAPT THE IACP SYSTEM. THE INSTRUCTIONAL PACKAGES ARE AVAILABLE THROUGH MCKNIGHT AND MCKNIGHT PUBLISHING CO., BLOOMINGTON, ILLINOIS, AND ARE ADAPTABLE TO EXISTING INDUSTRIAL ARTS FACILITIES. (AUTHOR/GEB)

GRANT NUMBER: OEG-3-7-070003-1608

BUREAU NUMBER: BR-7-0003

INSTITUTION NAME: OHIO STATE UNIV., COLUMBUS. RESEARCH FOUNDATION.

SPONSORING AGENCY NAME: ONATIONAL CENTER FOR EDUCATIONAL RESEARCH AND DEVELOPMENT (DHEW/OE), WASHINGTON, D.C.

ACCESSION NUMBER: EC053569

CLEARINGHOUSE ACCESSION NUMBER: EM009152

PUBLICATION DATE: MAR 50

TITLE: D EFFECTS ON TRAINING OF EXPERIMENTAL FILM VARIABLES STUDY II. VERBALIZATION, "HOW-IT-WORKS," NOMENCLATURE, AUDIENCE PARTICIPATION, AND SUCCINCT TREATMENT. RAPID MASS LEARNING. TECHNICAL REPORT.

PERSONAL AUTHOR: JASPEN, N.

DESCRIPTOR: U *ACTIVITY LEARNING; *ASSEMBLY (MANUFACTURING); AUDIENCE PARTICIPATION; *AUDIOVISUAL AIDS; FILMS; *INSTRUCTIONAL FILMS; *TEACHING PROCEDURES; TRAINING TECHNIQUES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 14P.; ONE OF A SERIES OF PAPERS BY THE INSTRUCTIONAL FILM RESEARCH PROGRAM AT PENNSYLVANIA STATE COLLEGE (NOW PENNSYLVANIA STATE UNIVERSITY)

ISSUE: RIEDEC71

ABSTRACT: A STUDY WAS CONDUCTED TO ASCERTAIN WHICH CHARACTERISTICS OF INSTRUCTIONAL FILMS AFFECT LEARNING. FOURTEEN VERSIONS OF A FILM DESIGNED TO TEACH THE ASSEMBLY OF PART OF AN ANTI-AIRCRAFT GUN WERE PREPARED AND SHOWN TO DIFFERENT GROUPS OF TRAINEES. THE STUDY EXAMINED THE FOLLOWING FACTORS: 1) NUMBER OF WORDS OF NARRATION USED TO DESCRIBE THE ACTION, 2) INCLUSION OF A SEQUENCE EXPLAINING HOW THE GUN WORKED, 3) AUDIENCE PARTICIPATION, IN WHICH TRAINEES TRIED TO ASSEMBLE THE GUN AT THE SAME TIME THE PROCEDURE WAS SHOWN ON SCREEN, AND 4) SUCCINCT TREATMENT (THE USE OF A CONCISE BUT COMPLETE FILM PRESENTATION TAKEN FROM AN EXISTING TRAINING FILM). THE RESULTS SHOWED THAT ABOUT 100 WORDS PER MINUTE OF FILM PRODUCED THE MOST EFFECTIVE LEARNING. TOO FEW OR TOO MANY WORDS IMPEDED INSTRUCTION. THE SEQUENCE EXPLAINING HOW THE GUN WORKED DID NOT IMPROVE PERFORMANCE IN ASSEMBLING IT. AUDIENCE PARTICIPATION WORKED IF THE FILM WENT SLOWLY ENOUGH TO ALLOW TRAINEES TO WATCH IT AND DO THE TASK TOO. SUCCINCT TREATMENT WAS INEFFECTIVE. SIMPLY USING THE TECHNICAL NAMES OF PARTS IN THE FILM DID NOT TEACH THOSE NAMES TO THE TRAINEES. (AUTHOR/JK)

REPORT NUMBER: SDC-269-7-11

INSTITUTION NAME: PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. COLL. OF EDUCATION.

SPONSORING AGENCY NAME: . OFFICE OF NAVAL RESEARCH, PORT WASHINGTON, N.Y. SPECIAL DEVICES CENTER.

ACCESSION NUMBER: ED052432

CLEARINGHOUSE ACCESSION NUMBER: AC010458

PUBLICATION DATE: 69

TITLE: TRAINING THE OPERATOR; A PRACTICAL GUIDE.

PERSONAL AUTHOR: GENTLES, E.M.

DESCRIPTOR: ADULT PROGRAMS; *GUIDES; *INDUSTRIAL TRAINING; *MACHINE TOOL OPERATORS; *SKILL DEVELOPMENT; *TRAINING TECHNIQUES

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$3.29

DESCRIPTIVE NOTE: 42P.; FIRST IN A NEW IPM SERIES OF PRACTICAL HANDBOOKS

ISSUE: RIENOV71

ABSTRACT: PRACTICAL METHODS THAT MAY HELP THE TRAINING OFFICER IN FACTORIES IN THE SELECTION AND TRAINING OF OPERATORS ARE PRESENTED. SUBJECTS DISCUSSED IN THIS GUIDE ARE: SELECTION; WHERE TO TRAIN; SKILLS ANALYSIS TRAINING; TRAINING MANUALS; INSTRUCTORS; RECORDS; INDUCTION; TRAINING OF SPECIAL GROUPS; AND RETRAINING. (CB)

REPORT NUMBER: IPM-PH-1

INSTITUTION NAME: INSTITUTE OF PERSONNEL MANAGEMENT, LONDON (ENGLAND).

ACCESSION NUMBER: ED052239

CLEARINGHOUSE ACCESSION NUMBER: TM000644

PUBLICATION DATE: APR 71

TITLE: DIRECTORY OF ACHIEVEMENT TESTS FOR OCCUPATIONAL EDUCATION.

PERSONAL AUTHOR: BOYD, JOSEPH L., JR.; SHIMBERG, BENJAMIN

DESCRIPTOR: *ACHIEVEMENT TESTS; APTITUDE TESTS; AUTO MECHANICS (OCCUPATION); BUILDING TRADES; *DIRECTORIES; DRAFTING; ELECTRONICS; GRAPHIC ARTS; HEALTH OCCUPATIONS; MACHINISTS; *MEASUREMENT INSTRUMENTS; *OCCUPATIONAL TESTS; OFFICE OCCUPATIONS; PERFORMANCE TESTS; STANDARDIZED TESTS; *VOCATIONAL APTITUDE; VOCATIONAL EDUCATION

EDRS PRICE: EDRS PRICE MF-$0.65 HC-$6.58

DESCRIPTIVE NOTE: 181P.; DRAFT

ISSUE: RIEOCT71

ABSTRACT: THIS DIRECTORY WAS COMPILED TO ASSIST VOCATIONAL TEACHERS AND RESEARCHERS IN LOCATING TESTS IN VARIOUS OCCUPATIONAL FIELDS. TEST DATA WAS GATHERED FROM PUBLISHERS, DIRECTORS OF VOCATIONAL PROGRAMS, UNION OFFICIALS, AND MEMBERS OF THE AMERICAN VOCATIONAL ASSOCIATION. SELECTION OF THE INSTRUMENTS DEPENDED ON THEIR AVAILABILITY AND STANDARDIZATION, ALTHOUGH A FEW RESTRICTED INSTRUMENTS AND NON-STANDARDIZED "ITEM-BANKS" ARE INCLUDED. SEVERAL "TRAINER-TESTER" DEVICES AND SIMILAR PERFORMANCE MEASURES ARE ALSO INCLUDED. THE TESTS ARE PRESENTED WITHIN ELEVEN BROAD FIELDS OF VOCATIONAL EDUCATION. EACH TEST ANNOTATION INCLUDES TITLE, AUTHOR, PUBLISHER, COST, FORMS AVAILABLE, ADMINISTRATION, AND A BRIEF DESCRIPTION OF THE TEST ITEMS. A KEY WORD INDEX IS PROVIDED TO FACILITATE TEST SEARCHES. (PR)

INSTITUTION NAME: EDUCATIONAL TESTING SERVICE, PRINCETON, N.J.

SPONSORING AGENCY NAME: ¬ DNEW JERSEY STATE DEPT. OF EDUCATION, TRENTON.; OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.